

PSYCHOLOGICAL ABSTRACTS

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GENERAL

4679. Bartlett, F. C. Experimental psychology. *Encyc. Brit.* (14th ed.), 1929, 8, 980-983.—Sources present status, practical applications.—C. H. Graham (Clark).

4680. Bleuler, E. Ein Stück Biopsychologie. (A contribution to biopsychology.) *Zsch. f. d. ges. Neur. u. Psychiat.*, 1929, 121, 476-486.—Bleuler is concerned with the question of how an ego-psychology is possible within a biopsychology. He goes into the views which Hauptmann has developed on "sub-cortical activity," wherein the ego is recognized and explained only as a principle and not as an existence; sensory activity, moreover, corresponds to functions of the organism and in principle cannot be differentiated from reflex processes. Bleuler replies in this connection that even for strictly scientific biopsychology the ego is something concrete, the highest integration of a cerebral function complex, to which an internal point of view is peculiar. Introspection is necessary in biopsychology. The ego has spontaneity too; beyond reflexes there are also strivings, in which a higher step of vital integration is to be seen. Unconscious impulses and movements, as in chorea, can therefore be looked upon as expressions of the ego, because a "necessity" momentum can be attributed to the ego and an extensive dissociation of the self is found, as is not the case in catatonic hyperkinesis.—S. Krauss (Freiburg).

4681. Boring, E. G. E. B. Titchener. *Encyc. Brit.* (14th ed.), 1929, 22, 252.—C. H. Graham (Clark).

4682. Boschenstein, —. Die Psychologie in Amerika. (Psychology in America.) *Psychol. Rundschau*, 1929, 1, 189-196.—The author reviews for German reading the trends of American psychology. He presents the intelligence, personality and character testing program with emphasis upon the fact that no testing must be satisfied with quantitative measurement. The qualitative is needed to understand the whole personality. The appearance of the science of characterology promises to supplement the findings of the intelligence testing program of the future. He reviews the extensive literature dealing with the American analysis of human nature, with the relationship of individual to group, as revealed in the pragmatic outlook. He sets forth the present analysis of instincts, emotions, and temperament, and compares the contributions of leaders in this field. The contributions of Watson in the behavioristic field and the viewpoint of Dewey receive appreciation and critical analysis.—A. B. Herrig (Central State Teachers College).

4683. Brett, G. S. History of psychology. *Encyc. Brit.* (14th ed.), 1929, 18, 706-720.—C. H. Graham (Clark).

4684. Cattell, J. McK. Psychology in America. *Science*, 1929, 70, 335-347.—The science of psychology has developed within the past 50 years. It had to await the development of the exact and natural sciences, and we should remember that all the sciences, as we know them, are comparatively new. The remarkable academic advance of psychology from 1883 to 1900 was favored by the growth of our universities. The advances made in America owe their start to the inspiration derived from the great European psychologists. American psychology is not so much the product of great leaders as the work of uncounted individuals. It has, however, developed in its own characteristic fashion. Its main contribution has been the objective measurement of response to the situation without introspection and with special reference to individual differences and practical usefulness. The progress of psychology in America is illustrated by statistical material.—G. J. Rich (Boston Psychopathic Hospital).

4685. Hartmann, J., & Trolle, B. A new acoustic generator. The air-jet generator. *J. Sci. Instruments*, 1927, 4, 101-111.—This instrument employs an air-jet, with a velocity higher than that of sound, as a fundamental member. The article gives a brief historical and theoretical discussion of the properties of the jet, and the results of investigations. Charts and drawings are given, together with photographs.—H. R. Thompson (Stanford).

4686. Jones, E. Sigmund Freud. *Encyc. Brit.* (14th ed.), 1929, 9, 836-837.—C. H. Graham (Clark).

4687. Langfeld, H. S. The Ninth International Congress of Psychology. *Science*, 1929, 70, 364-368.—A report of the meetings of the Congress in New Haven.—G. J. Rich (Boston Psychopathic Hospital).

4688. Marcuse, H. Die psychischen Reaktionsformen. (Psychic reaction forms.) Berlin: Karger, 1929. Pp. vii + 262. M. 22.—Psychiatry has previously started from the assumption that there are different functional diseases, and distinguishes varieties presumed to be etiologically distinct and even hereditarily unique. This hypothesis finds no support in clinical facts. The multiplicity of symptoms is not traceable to separability of the ailments but to intensity differences such as those of psychic constitution and constellation. There are no pathognomonic psychic symptoms, but various stimuli may produce identical, and equivalent stimuli distinct, reactions. The qualitative analysis of the psychic must be supplemented by the quantitative. This neglected method is the necessary source for knowledge of the normal and diseased mental process. This view was presented in 1913 by the author in his *Energetic Theory of the Psychoses*. The present account aims to show the practical applicability of the theory. According to their capacity for

higher mental work individuals are classifiable into hyper- and hyponoetics. The genius is distinguished from the normal, the cultivated man from the feeble-minded, the waker from the dreamer, largely by the intensity of his psychic activity, from which qualitative differences first emerge. Jodl's separation of various levels of psychic reaction leads to the recognition that every psychic symptom may arise somatogenetically or psychogenetically. Schizophrenia is reducible to excitation and inhibition. As sources of psychological data, dreams can be used in only a very restricted way. The value of such cultural achievements as ethical and esthetic acts rests upon the intensity of psychic energy which they bring to expression.—*H. Marcuse* (Berlin-Charlottenburg).

4689. **Marston, W. M.** *Consciousness.* *Encyc. Brit.* (14th ed.), 1929, 6, 282.—Definition as mental experience. Physiology.—*C. H. Graham* (Clark).

4690. **Miles, W. R.** On the "mistuning" of weighted forks. *J. Sci. Instruments*, 1928, 5, 152-154.—Weights unequally set on the prongs of a tuning fork are shown to cause the prongs to vibrate at the same frequency, but with different amplitudes. Unequal weighting brings about a change in tone duration. A four pronged pitchfork responds similarly, when any two prongs are held; three or four prongs vibrating together produce beats. The author gives examples of photographic records and a bibliography.—*H. R. Thompson* (Stanford).

4691. **Petermann, B.** *Die Wertheimer-Koffka-Köhlersche Gestalttheorie und das Gestaltproblem.* (The Wertheimer-Koffka-Köhler *Gestalt* theory and the *Gestalt* problem.) Leipzig: Barth, 1929. Pp. 292. M. 14.—This work gives a comprehensive picture and critique of the *Gestalt* theory. The gradual development of the significant concepts is traced step by step, with their eventual extension to all fields of psychology. Beginning as a stage in the explanation of special processes, the theory was consolidated into a definitive system with a characteristic orientation. That the theory has broader implications than its conceptual and methodological peculiarities indicate has already been observed by its antagonists. A critical section analyzes the construction of the *Gestalt* theory as presented in Köhler's attempts at a *Gestalt* physics and physiology. A discussion of the experimental findings which furnish the concrete basis of the *Gestalt* theory aims to organize material at present scattered in numerous periodicals. The limitations of the *Gestalt* theory are marked. The inadequacy of its solutions and its failure to meet a sharp test are traceable to certain ambiguities and unformulated metaphysical assumptions. The author closes with a philosophical criticism of the movement.—*B. Petermann* (Kiel).

4692. **Schnell, J.** *Paul Ranschburg, seine Wirksamkeit und wissenschaftliche Persönlichkeit.* (Paul Ranschburg, his work and his scientific personality.) *Psychol. Stud.* (Ranschburg-Festschrift), 1929, 1-15.—A brief summary of the most important points in the life of Hungary's famous psy-

chologist. It includes the titles of most of his psychological studies.—*D. E. Johannsen* (Wellesley).

4693. **Schnell, J.** *Die wissenschaftliche Tätigkeit des königlichen ungarischen heilpädagogischen-psychologischen Laboratoriums im Laufe eines Vierteljahrhunderts.* (1903-1928.) (The scientific activity of the royal Hungarian therapeutic-pedagogical-psychological laboratory in the course of a quarter of a century. 1903-1928.) *Psychol. Stud.* (Ranschburg-Festschrift), 1929, 15-105.—A description of the work of the laboratory from 1903 to 1928. A bibliography of articles published by men connected with it is included at the end.—*D. E. Johannsen* (Wellesley).

4694. **Stout, G. F., & Mace, C. A.** *Psychology.* *Encyc. Brit.* (14th ed.), 1929, 18, 675-690.—Exposition of functionalism.—*C. H. Graham* (Clark).

4695. **Watson, J. B.** *Behaviourism.* *Encyc. Brit.* (14th ed.), 1929, 3, 327-329.—History, viewpoint, methods, theories.—*C. H. Graham* (Clark).

4696. **Wolf, A.** *Association of ideas.* *Encyc. Brit.* (14th ed.), 1929, 2, 563-564.—History, criticisms, restatement, physiological basis.—*C. H. Graham* (Clark).

4697. **Wolf, A.** *Associationism.* *Encyc. Brit.* (14th ed.), 1929, 2, 564-566.—*C. H. Graham* (Clark).

[See also abstracts 4773, 4818.]

SENSATION AND PERCEPTION

4698. **Andrade, E. N. DaC.** *Colour.* *Encyc. Brit.* (14th ed.), 1929, 6, 52-56.—*C. H. Graham* (Clark).

4699. [Anon.] *Night vision of aviators.* *Lancet*, 1929, 216, 319.—Acuity of night vision is .06 to .09 of what is considered normal by day. Night vision is so important to night fliers that they must be specially selected, attention being given both to keenness of their night vision and the rapidity of its attainment.—*W. T. Heron* (Minnesota).

4700. **Boring, E. G.** *Organic sensations.* *Encyc. Brit.* (14th ed.), 1929, 16, 897.—*C. H. Graham* (Clark).

4701. **Boring, E. G.** *Psychophysics.* *Encyc. Brit.* (14th ed.), 1929, 18, 720-721.—History and methods. Discussion of Weber's law.—*C. H. Graham* (Clark).

4702. **Breckenridge, F. C., & Nolan, J. E.** *Relative visibility of luminous flashes from neon lamps and from incandescent lamps with and without red filters.* *Bur. Standards J. Res.*, 1929, 3, 11-25.—*D. B. Judd* (Bureau of Standards).

4703. **Cassirer, E.** *Étude sur la pathologie de la conscience symbolique. I.* (A study on the pathology of symbolic consciousness. I.) *J. de psychol.*, 1929, 26, 289-336.—The author discusses the problem of symbols in the history of the theories of aphasia, the modifications of the perceptual sphere resulting from aphasia, and various pathological aspects of perception attributable to defective symbolic representation. Injury to the symbolic consciousness breaks up the continuity of experience and destroys the unity of the perceptual world.—*N. L. Munn* (Pittsburgh).

4704. Corkill, D. E., & Lythgoe, R. J. Some experiments on eye movements. *Brit. J. Ophth.*, 1929, 13, 433-444.—An attempt to measure the angular velocity of eye movements in the vertical and horizontal planes. The angle chosen was 20°. The subjects were instructed to report the position of a broken circle which was illuminated for short and definitely known fractions of a second. The number of errors made under each of the various conditions was taken as the criterion of the speed of eye movement under those conditions, although it is recognized that the optimal time value deduced from this covers much more than the mere movement, i.e., such things as latent periods of both stimulation and movement, and perception time. The effects of distracting glare was also investigated. The important conclusions are that the relative ease of eye movements (as measured by errors in given units of time) is greater for side to side accommodations, next easiest for downward adjustments, and hardest for upward movements. The glaring source used had surprisingly little effect on the number of errors made in each case. Performance was slightly worse, but no significant difference was found.—D. L. Bidwell (Ohio State).

4705. Cowan, A. A visual test card. *Amer. J. Ophth.*, 1929, 12, 301-303.—The writer gives specifications for a visual test card.—C. W. Darrow (Behavior Research Fund).

4706. Cowan, A., & Marcque, M. E. A method of mapping scotoma with tangent screen by binocular fixation. *Amer. J. Ophth.*, 1929, 12, 656-658.—The eye being tested fixates directly a screen placed in front, while the other eye fixates by means of a mirror another screen at the side and at right angles to the first. Thus, when one eye is affected by a central scotoma, fixation can be maintained by the other eye.—C. W. Darrow (Behavior Research Fund).

4707. Dide, M. Variations psychopathiques de l'intuition durée-étendue. (Psychopathic variations of duration-extent intuition.) *J. de psychol.*, 1929, 26, 410-424.—The author analyzes the processes by means of which the normal individual reacts to the extended aspects of the environment. A number of anomalies of the "intuition" of extent are pointed out and illustrated by case records. It is suggested that the infra-cortical and vegetative systems, as well as the cortical, may be involved. Under variations of the intuition of duration the author differentiates bio-psychic anachronisms, subjective anachronisms due to inertia, and deliriant anachronisms. Of the complex intuitions of extent and duration he says, "The extent-duration binary attains a generality beyond which it is impossible to go; it comes to consciousness directly without the intermediation of exogenous perceptions, and in that way, but in that way only, it is immediate. Its regularity and its solidity depend upon psychic equilibrium edified by these universal and eternal bases. The space-time concept itself represents an intellectual abstraction of the imperfection of which necessarily attains neither mental depths nor activities of realization." The apriorism judged by Kant to be inexpugnable is

seriously doubted by the author.—N. L. Munn (Pittsburgh).

4708. Evans, J. N. A scotoma associated with strabismus. *Amer. J. Ophth.*, 1929, 12, 194-213.—After rejection of all unreliable cases a central scotoma at least two degrees in diameter was found in all (16) cases of strabismus studied. A fluctuating angio-scotoma frequently connected the central area with the blind spot. Evidence of similar conditions was found in cases from the literature. The reduced vision and wandering movements of the eyes are explainable by the scotoma. It is suggested that strabismus may originate in a subnormal acuity of foveal vision. Bibliography of 35 titles.—C. W. Darrow (Behavior Research Fund).

4709. Ferree, C. E., Rand, G., & Monroe, M. M. Studies in perimetry. 3. Errors of refraction, age and sex in relation to size of the form field. *Amer. J. Ophth.*, 1929, 12, 658-664.—200 individuals were studied. Tables show, among other details, the frequency of occurrence of each group of size of field for each age group, the number of cases of each sex tested in the various refraction groups, and the average breadth of field in degrees for each group. It is concluded that errors of refraction are an important factor in variability of size of the form field from individual to individual, that after forty years age is an important factor, and that sex is apparently not a factor of sufficient importance to take into account in diagnosis.—C. W. Darrow (Behavior Research Fund).

4710. Fröhlich, F. W. Die Empfindungszeit. Ein Beitrag zur Lehre von der Zeit-, Raum- und Bewegungsempfindung. (Perception time: a contribution to the doctrine of perception of time, space and movement.) Jena: G. Fischer, 1929. Pp. x+366. M. 22.—The task of this book is to clarify the problem of the temporal development of sensations. In opposition to numerous other authors, the writer is of the opinion that the whole field can be attacked by the methods of natural science, largely because the temporal course of the sensations (and consequently that of the higher conscious processes) is amenable to measurement. Fröhlich treats the following headings: development of the problem, methods of measuring the duration of sensation and the time sequence of sensation, methods of measuring perception-time, the magnitude of perception time and the temporal course of sensation, time factors in periodic after-sensations, auditory reaction time, tactual reaction time, divisions of reaction time, sensations of movement and stroboscopic vision, origin of geometric-optical illusions, physiological bases of the multiplicity of sensations, relation of reaction time to perception of time and space. A comprehensive bibliography of more than fifty pages is included.—O. Seeling (Berlin).

4711. Greeves, R. A. The significance of ocular tests. (Monocular tests.) *Lancet*, 1929, 216, 249-250.—The author describes the tests, using Snellen's types and Jaeger's types; also perimetry and retinoscopy. He defines the various types of hemianopia and gives the characteristics of the emmetropic, hypermetropic, and myopic eyes.—W. T. Heron (Minnesota).

4712. Greeves, R. A. The significance of ocular tests. (Binocular tests.) *Lancet*, 1929, 216, 298-299.—The author describes the uses of the stereoscope and amblyoscope for testing binocular vision. He also gives a description of tests for diplopia, heterophoria, color-blindness, and intra-ocular tension.—W. T. Heron (Minnesota).

4713. Israel, N. E. Contribution to the development of the human cornea. *Amer. J. Ophth.*, 1929, 12, 469-475.—From a detailed study of embryos the author presents views of the development of the corneal epithelium differing from those of Mann. 7 figures, 4 references.—C. W. Darrow (Behavior Research Fund).

4714. Jackson, E. Changes in the refraction of the eye. *Amer. J. Ophth.*, 1929, 12, 361-367.—An analysis of 729 cases in which refraction was tested over a period of ten or more years shows that changes in refraction are to be expected.—C. W. Darrow (Behavior Research Fund).

4715. Jackson, E. Eye strain at different ages. *Amer. J. Ophth.*, 1929, 12, 510-511.—C. W. Darrow (Behavior Research Fund).

4716. László, F. Ujrafelismerési kísérletek különböző hasonlóságú és heterogen színsorokkal. (Experiments on the recognition of color-series of different degrees of homo- and heterogeneity.) *Psychol. Stud.* (Ranschburg-Festschrift), 1929, 123-139.—On the basis of experiments performed by both the simultaneous and successive methods, an attempt has been made to establish the inhibiting effect of the homogeneity of the neighboring colors. Both kinds of experiment show that with increasing homogeneity the inhibition is increased, with decreasing homogeneity it is decreased. The simultaneous experiments indicate that the self-assertiveness of the longer wave-lengths is greater than that of the shorter. There is little difference in the assertiveness of the saturated and unsaturated colors, but what little there is favors the unsaturated.—D. E. Johanssen (Wellesley).

4717. Leidler, R. Über ein neues, vielleicht vom Labyrinth ausgelöstes Phänomen. (Concerning a new phenomenon, which, perhaps, originates in the labyrinth.) *Monatsschr. f. Ohrenh.*, 1928, 62, 1039-1043.—If a person assumes the erect position, feet 30 centimeters apart, arms raised to vertical, parallel with head; then bends forward with eyes closed, rotating head and upper trunk to the right (or left) 5 times, he experiences a sensation as if the feet were displaced in a diagonal direction. When the weight of the body is permitted to rest on the left (or right) foot and rotation is executed 5 times to the left (or right), the right (or left) foot will be automatically diagonally displaced. The writer concludes that the phenomenon must be governed by the labyrinth and proposes further investigation.—J. D. Larson (Institute for Juvenile Research).

4718. McCullough, C. J., & McCullough, W. J. L. Loss of peripheral vision after head trauma. *Amer. J. Ophth.*, 1929, 12, 741-743.—An injury to the head causing only slight immediate symptoms re-

sulted five days later in total blindness. Considerable return of vision occurred within the year. Central areas were the first to recover.—C. W. Darrow (Behavior Research Fund).

4719. McKinley, J. C. A simple method for determination of threshold value of vibration sense. *Proc. Soc. Exper. Biol. & Med.*, 1928, 25, 827-831.—This instrument consists of a tuning fork with vibration rate of 128 per second, weighing approximately 500 gm., and provided with a sliding metal collar around the shank of the base, used for holding the fork in position. The fork is set into vibration by jerking piano-wire rods, of varying length, from between the prongs. The writer gives curves showing the average amplitudes produced by various rods and recession of vibration amplitude of the fork.—H. R. Thompson (Stanford).

4720. Morton, H. M. Rotational planes in facial asymmetry. *Amer. J. Ophth.*, 1929, 12, 576-580.—When, due to facial asymmetry, the eyes are not in the same horizontal plane with respect to the face, orthophoria or normal vision occurs if the visual axes of the two eyes fixing a common point remain in a common plane. Heterophoria and orthophoria may occur in planes that are either horizontal or tilted. The writer suggests the use of the term hyperophthalmos or hypophthalmos to designate an actual higher or lower position of either eye, with respect to the other, and hyperversion or hypoversion to indicate incorrect positions of the visual axes.—C. W. Darrow (Behavior Research Fund).

4721. Netschajeff, A. Zur Frage über die qualitative Wahrnehmungsform. (The question of the qualitative form of perceptions.) *Psychol. Stud.* (Ranschburg-Festschrift), 1929, 114-118.—The author describes a tachistoscope permitting the presentation of real objects. In the experimental series 5 objects were usually presented, each one representing a different kind of interest, e.g., domestic, religious, artistic, etc. Minimal exposure time was given first, and then this was gradually lengthened; whenever an object was reported the same exposure time was immediately repeated. Three kinds of perception forms were found: (1) *objective*—the gradual acquirement of a perception, without any illusions, (2) *illusory*—illusions which were continuously observed for some time, and (3) *indeterminate*—quickly arising and just as quickly disappearing illusory perceptions. (Only definite visual images which did not correspond to the given object were counted illusions.) The following conditions were demanded before the illusory rank was given to a perception: (1) the gradual clarification and accumulation of individual parts of the same image in the course of at least 4 tachistoscopic perceptions, and (2) at least 6 repetitions of one and the same illusory image. The results show that the inclination to the "objective" form of perception increases with the age of the observer, and simultaneously the tendency to illusions decreases. Women have a greater tendency to illusory perception form than men, their perceptions having a lesser degree of objective exactness.—D. E. Johanssen (Wellesley).

4722. Parker, G. H. Smell and taste. *Encyc. Brit.* (14th ed.), 1929, 20, 819-820.—Structure and function.—C. H. Graham (Clark).

4723. Parsons, J. H., Bartlett, F. C., & Goulden, C. B. Vision. *Encyc. Brit.* (14th ed.), 1929, 23, 199-214.—Physics, physiology and psychology of normal vision. Some discussion of abnormal (color-blindness, etc.).—C. H. Graham (Clark).

4724. Redway, L. D. Photomicrography of the living eye. 5. The physics of certain types of corneal capacity. *Amer. J. Ophth.*, 1929, 12, 286-292.—Experience in photomicrography of corneal capacities suggests that the visual acuity of certain eyes could be increased by the exclusion of light of wave lengths less than 5100μ . 8 figures, 4 references.—C. W. Darrow (Behavior Research Fund).

4725. Redway, L. D. Photography of the living eye. Reproduction in natural colors. *Amer. J. Ophth.*, 1929, 12, 711-719.—One figure. Two references.—C. W. Darrow (Behavior Research Fund).

4726. Selz, O. Essai d'une nouvelle théorie psychologique de l'espace, du temps, et de la forme. (Essay concerning a new psychological theory of space, time, and form.) *J. de psychol.*, 1929, 26, 337-353.—The author discusses Kant's theory of spatial and temporal perception and then presents one of his own based upon the "structure" of experience. "The spatial and temporal series are 'homogeneous' series of increments; that is to say, at any point of the series the same phenomena of increment take place as at the phenomenological zero . . . but the 'unlimited and infinite' extent of space and time are only the possibility, according to the laws of structure, of the continuous and indefinite series of qualitative increments of place and time in all directions. Every determined extent in space and time is an event in the unlimited and infinite series of increments." The treatment is entirely theoretical.—M. L. Munn (Pittsburgh).

4727. Troland, L. T. Colour blindness. *Encyc. Brit.* (14th ed.), 1929, 6, 61.—C. H. Graham (Clark).

4728. Von Buddenbrock-Hettersdorf, W. Hearing, sense of. *Encyc. Brit.* (14th ed.), 1929, 11, 300-302.—C. H. Graham (Clark).

[See also abstracts 4685, 4690, 4736, 4770, 4787, 4930.]

FEELING AND EMOTION

4729. Dumas, G. La douleur et le plaisir. (Pain and pleasure.) *Rev. phil.*, 1929, 54, 174-229.—This article is a general review of the psychological and physiological aspects of pain and pleasure. An extensive bibliography is appended.—(Courtesy *Social Science Abstracts*).

4730. Flügel, J. C. Psychology of feeling. *Encyc. Brit.* (14th ed.), 1929, 9, 143-148.—C. H. Graham (Clark).

[See also abstracts 4761, 4842, 4843.]

ATTENTION, MEMORY AND THOUGHT

4731. Bischler, W. Contribution à l'étude des idées générales. (A contribution to the study of

general ideas.) *Arch. de psychol.*, 1929, 21, 320-353.—The first part of the article is a brief historical summary. The author distinguishes two main currents of thought: rationalistic idealism and phenomenalism. The latter comprises several subdivisions: empiricism or sensationalism, intellectualism or rationalism, affectivistic empiricism, empiricism or activism (voluntary or pragmatic), physiological motor empiricism, behaviorism, and evolutionistic sociology. The author reviews the authors on each doctrine, bringing out the characteristics which differentiate one from another. He thinks that each theory has a legitimate foundation in that it stresses one of the sides of the problem, but that no one theory alone is sufficient to explain the problem. The second part of the work is experimental. By means of the classification method the author studied the nature, genesis, and evolution of general ideas. He presented to about 20 adults certain pictures or objects to be classified freely, or according to a given principle or suggested idea, or with a determined end in view. Other experiments were made with groups of pictures which were to be completed or for which an impression of the whole was to be obtained. Along with pure perception, intellectual factors such as analysis, comparison, abstraction, and synthesis were not judged sufficient to explain the great individual differences found. Individual experience, the tendency to group things according to their utility, affectivity, and the behavior habits peculiar to each person help to make up the personal and subconscious foundation of the concepts which social factors then tend to fixate. The author's point of view of the concept is, therefore, intellectualistic, voluntaristic, affectivistic, and pragmatic. There is a bibliography of 113 titles.—M. R. Lambercier (Geneva).

4732. Bonte, T. Die personale Bedeutsamkeit der eidetischen Anlage unter besonderer Berücksichtigung ihrer Beziehung zum intellektuellen Leben. (The personalistic importance of the eidetic tendency, especially in its relation to the intellectual life.) In *Untersuchungen über die eidetische Veranlagung von Kindern und Jugendlichen; Beihefte z. Zsch. f. angew. Psychol.*, 1928, No. 43. Pp. 1-110.—Approximately one-third of the subjects (about 300 boys from 7 to 15 years old) "possess a manifest eidetic capacity." The most frequent occurrence was at the age just before puberty. No correlation was found between the eidetic tendency of either B or T type and intelligence; a high correlation, however, was discovered between the eidetic B-constitution and suggestibility. Probably only intelligent eidetic individuals can consciously make use of their E.I. In some cases the E.I. seems to be definitely detrimental, absorbing much energy without finding a place in the general mental organization. The value of the eidetic tendency cannot be expressed by a general law; it is a matter for investigation by individual, personalistic psychology.—H. W. Nissen (Yale).

4733. Cuff, N. B. The law of use. *J. Educ. Psychol.*, 1929, 20, 438-447.—The influence upon retention of 4, 16, and 28 repetitions beyond the threshold is studied. Lists of 12 consonants, 12 digits, and 10

nonsense syllables are used with 75 subjects. Retention is tested by relearning after 24 hours. It is concluded that no definite ratio obtains between number of readings and saving. The percentages saved may increase, remain the same, or decrease as the number of readings beyond the threshold is increased. Bright subjects profit less from additional readings than do duller ones. The results are interpreted as unfavorable to the law of use. Incidental data and correlations are given.—J. A. McGeoch (Arkansas).

4734. Forsberg, J. Förstående och minne, en undersökning rörande vuxnas studiemetoder. (Understanding and memory; an investigation on the method of study of adults.) Uppsala: Svenson, 1928. Pp. 248.—This study, which was presented as a Ph.D. thesis at the University of Uppsala, is a further extension of a study published by the author in 1917 in *Ark. f. psyk. o. ped.* under the title *Studier rörande inlärandet hos vuxna* (Studies concerning the learning process of adults). The work is based on individual experiments involving introspection and on general questionnaires. While the material is thus of a somewhat varied and fragmentary nature, extensive use has also been made of relevant literature with special reference to the general field of memory and thought processes. In this general field the following American scholars are represented: Dewey, James, McDougall, T. V. Moore, H. B. Reed, Titchener, Watson, Weiss, and Woodworth. From his analysis of the material Forsberg draws several general conclusions concerning the *Gestalt* and "complex"-psychological problems. Main emphasis, however, is placed upon the more central and special problems of understanding, learning and reproduction and the complexes, methods and forms of these which his material brings out. The importance of the often definite relationship between the nature of the subject-matter to be learned and the particular imagery employed is a major conclusion, as is also the author's emphasis on the fact that the great number of mutually conflicting psychological views concerning learning may each have a relative value and may be correct in regard to the source from which it is derived. Only a study of "natural" learning can give a proper information about the frequency and weight of the various "complex-types." The study opens up several problems concerning natural learning of various material and definite subjects.—M. L. Reymert (Wittenberg).

4735. Klüver, H. Eidetic images. *Encyc. Brit.* (14th ed.), 1929, 8, 112.—C. H. Graham (Clark).

4736. Kollarits, J. Über Verschmelzung und Assimilation. Das Gesetz der ablaufenden Melodie und des angeschlagenen Akkordes. (Fusion and assimilation. The law of expiring melody and the struck harmony.) *Psychol. Stud.* (Ranschburg-Festschrift), 1929, 105-113.—The author reports certain experiments which confirm and supplement the facts on which Ranschburg established the "law of expiring melody" and "the law of the struck harmony." Fusion and assimilation cannot be sharply distinguished. Fusion may be considered to be the flowing together and fusing of two similar

conscious contents, while assimilation is that kind of fusion in which differences are abolished. When the fusion is between individual members of a series we have the law of "expiring melody," whereas if the fusion is between two whole images, then we speak of the law of "struck harmony." The changing of letters in certain words in very rapid reading, constructing thereby a real word but one which did not occur, is an example of the former law. In series or configurations made by using the same letters or digits, it was found that a single different figure was usually observed as such, due to the contrast effect presumably; this experiment confirms Ranschburg's assertion that a visual configuration is a hindrance to the fusion of similars. Both laws are special cases of "cessation." In the law of "expiring" melody the main emphasis is on the motor side.—D. E. Johansson (Wellesley).

4737. Ledig, G. Der Beschluss. (Decision.) *Arch. f. d. ges. Psychol.*, 1929, 70, 234-250.—A decision belongs to occurrences of primary reality. It is unconditionally comprehended in experience. Fundamentally it cannot be a "structure," because this expression, according to Krueger, should mean a lasting construction of component parts and total forces, while the decision, according to its character, is not founded upon duration. The structure theory offers many applications, however, in the understanding of the concept of decision. It is not to be denied that decision, in the same manner as structure, shows a tendency and a dynamic feature. A decision that something will be done in the future will condition behavior up to that time. Decision is a link between psychic structures and action. On the other hand, it is not a necessary supposition of that action. The quality of resistance gives a dimension to decisions—a quantitative moment. There are decisions of greater or less strength. A decision can be in existence without being an uninterrupted object of the attention. There are no decisions of which the subject is unaware at the time of their making. A decision is aimed at an object. Its object, however, is not the decided action in its concrete realization. Decisions are of great sociological importance.—H. S. Clapp (Southboro, Mass.).

4738. Liefmann, E. Untersuchungen über die eidetische Veranlagung von Schülerinnen einer höheren Mädchenschule. Anhang: Einzelne Untersuchungen an Erwachsenen. (Investigation of the eidetic tendency in students of a girls' high school. Appendix: A few investigations with adults.) In *Untersuchungen über die eidetische Veranlagung von Kindern und Jugendlichen; Beihefte z. Zsch. f. angew. Psychol.*, 1928, No. 43. Pp. 111-196.—Of 834 girls, from 10 to 19 years old, only 98, i.e., 10.7%, were found who had E.I. The greatest frequency of occurrence was at about age 12 years. From 15 to 17 years E.I. was found to occur very rarely. Beside the usual two types, a far more frequent mixed type was found. Combinations of all of the symptoms of the E.I. like those reported by the Marburg school were not discovered. Author believes that in adults the eidetic tendency may be correlated with artistic proclivities and that in general certain mental characteristics are associated with

the capacity for E.I.; no relation was found, however, between the eidetic tendency and scholastic ability. No correlation between types of eidetic imagery and constitutionally determined somatic characteristics (as reported by W. Jaensch) could be discovered. Negative results were obtained with calcium treatment. Capillary pictures could not be correlated with the eidetic tendency. E.I. was neither changed nor initiated by artificially induced tetany. The drug *Anhalonium lewini* did not have any unusual or specific effect on eidetic individuals.—H. W. Nissen (Yale).

4739. Liefmann, E. *Die eidetische Anlage und ihre Bedeutung für die Konstitutionstypologie.* (The eidetic disposition and its significance for the science of constitutional types.) *Zsch. f. d. ges. Neur. u. Psychiat.*, 1928, 116, 537-558.—Jaensch has shown the relation between the different phenomenal types of eidetic imagery on the one hand and somatic characteristics on the other, and has presented a constitutional typology. The Basedowoid type, whose eidetic images are labile, shows stigmata of the vegetative nervous system, protrusio bulbi, glassy eyes, goiter. The tetanoid type whose images are fixed is characterized by mechanical and galvanic hyper-irritability, small dull eyes and the "tetany face." Liefmann considers it doubtful whether constitutional typological signs are found in children and adolescents. Subsequent investigation does not confirm Jaensch's theory. It is not possible to show a general relation between eidetic ability and definite constitutional signs. There is no connection between goiter and the eidetic B-type; thyroid therapy does not change the character of the images. Calcium medication does not change the tetanous nature of the images. The condition of the capillaries has no relation to the eidetic capacity. Experiments in alkalization of the blood and in breathing tetany in adults produce no change in their visual phenomena. Experiments with mescal likewise have no constitutional typological connection. Thus the theories of Jaensch are not confirmed as actual facts. Liefmann explains the differences in eidetic imagery on the basis of structural peculiarities of visual presentations and memories. It is important to observe that no correlation is found between intelligence and eidetic capacity.—S. Krauss (Freiburg).

4740. Maso, N. *La valeur de l'activité de l'esprit dans la fixation des idées. Contribution expérimentale à la théorie de l'"école active."* (The value of mental activity in fixation of ideas. An experimental contribution to the "activity school" theory.) *Arch. de psychol.*, 1929, 21, 275-292.—The author has investigated to what extent passive or active attitudes aid mnemonic acquisitions, using three experimental procedures. Experiments were made on 23 to 44 subjects, adults and children. The first experiment dealt with the memory for names of 12 pictures which were to be classified and accompanied with names or adjectives (the active method), and, on the other hand, with the memory for names of 12 pictures already classified and accompanied by names or adjectives (the passive or receptive method). The second experiment dealt with the memory for

5 biographies which the subject had first to summarize, or which, on the other hand, had already been summarized for him. The third experiment consisted of two codes which were to be learned through use or through simple memorization. Each subject performed both kinds of experiments, though he was inclined to memorize according to one method or the other. All the experiments showed that, for about 65% of the subjects, acquisition was better and more lasting when the mind was active. However, several subjects, apparently especially talented in that line, obtained better results from mechanical memorization. The rest gave similar results for both methods. The author concludes that memorization accompanied by mental activity is the more profitable method for the majority of persons.—M. R. Lambercier (Geneva).

4741. Roessler, F. *Verbreitung und Erscheinungsweise subjektiver optischer Anschauungsbilder bei Knaben und Mädchen im Alter von 6-10 Jahren.* (Distribution and appearance of subjective optical eidetic images in boys and girls from 6 to 10 years old.) In *Untersuchungen über die eidetische Veranlagung von Kindern und Jugendlichen*; Beihefte z. *Zsch. f. angew. Psychol.*, 1928, No. 43. Pp. 197-371.—42% of 400 boys and 39% of 326 girls were found to be "manifestly eidetic." E.I. occurred with greatest frequency at the youngest age tested, i.e., 6 years. The relative as well as the absolute number of children manifesting a strong eidetic tendency decreases with increasing age. The eidetic capacity, manifest or latent, is not universal, even at 6 years; if, to the individuals manifestly eidetic, are added all children showing any deviation from Emmert's law in their after-images, the group will still not embrace all members of the age range in question. The amount of detail found in the E.I. is the only reliable criterion for the strength of the eidetic tendency; color and persistence cannot be used for this purpose. 43.8% of the eidetic individuals have E.I. colored exactly as in the original perception. 13.0% have images whose coloring is exactly complementary to that of the represented objects. The remaining cases show images which either lack color (i.e., are gray) or which present various combinations of gray, original color and complementary color. Chromopsy, the phenomenon of colored E.I. based on achromatic perceptions, was found frequently in the younger children. Discrepancies between the memory image and the content of the E.I. were sometimes found; it was impossible to correct these discrepancies by transforming the memory image into an E.I. Almost all subjects with strong eidetic tendency can voluntarily produce E.I. Spontaneous E.I., usually connected with a state of fear, are rare; they occur almost exclusively in the labile type, not in the fixed (T-) type. No correlation was found between the eidetic tendency and intelligence. Memory, especially for colors, is better, particularly after long intervals, in eidetic than in non-eidetic individuals. Practice can increase the readiness with which E.I. are produced, but it does not change the nature of these images.—H. W. Nissen (Yale).

4742. Sommer, R. *Gedächtnis und Ermüdung. Eine Selbstbeobachtung.* (Memory and fatigue. A self-observation.) *Psychol. Stud.* (Ranschburg-Festschrift), 1929, 119-122.—The strong influence which fatigue has on memory may be manifested in two ways: (1) ability to grasp material may be decreased, resulting in subsequent poor memory, or (2) there may occur a decrease in the power of reproduction of an originally clearly grasped idea. The author reports a personal case of temporary loss of memory for a name with a subsequent false reconstruction of it, which appeared to depend on certain changes in letter sounds which he believes demand further investigation.—D. E. Johannsen (Wellesley).

4743. Stoddard, G. D. An experiment in verbal learning. *J. Educ. Psychol.*, 1929, 20, 452-457.—Fifty paired-associates (French and English words) were studied for 20 minutes by 328 subjects, most of them high school pupils, and an immediate recall of large samplings was taken. The conditions were arranged to test the several factors indicated in the following conclusions: when learning order is partialled out, the ratio of equivalents for French words to equivalents for English words is two to one; the learning order itself has little influence; recall is greater when the recall order is the same as the practice order; in the test the unfamiliar French calls up a greater number of associations than the familiar English; and the total scores range from two to fifty out of a possible fifty.—J. A. McGeoch (Arkansas).

4744. Wolf, A. Attention. *Encyc. Brit.* (14th ed.), 1929, 2, 657-658.—Definitions with a discussion of the objective and subjective conditions, the various kinds, duration and span.—C. H. Graham (Clark).

4745. Wolf, A. Intelligence. *Encyc. Brit.* (14th ed.), 1929, 12, 457-458.—Theories.—C. H. Graham (Clark).

[See also abstracts 4696, 4697, 5008, 5009.]

NERVOUS SYSTEM

4746. Adrian, E. D. Chronaxie. *Encyc. Brit.* (14th ed.), 1929, 5, 648.—C. H. Graham (Clark).

4747. Adrian, E. D. Nerve. *Encyc. Brit.* (14th ed.), 1929, 16, 238.—Function of nerve.—C. H. Graham (Clark).

4748. [Anon.] Time factors in nervous phenomena. *J. Amer. Med. Asso.*, 1929, 93, 1068-1069.—A restatement of the views of Lapicque on chronaxie in the central nervous system. (See III: 4411.)—G. J. Rich (Boston Psychopathic Hospital).

4749. Forbes, A. All-or-none law. *Encyc. Brit.* (14th ed.), 1929, 1, 660.—C. H. Graham (Clark).

4750. Gladstone, R. J. Anatomy of the brain. *Encyc. Brit.* (14th ed.), 1929, 4, 9-20.—C. H. Graham (Clark).

4751. Kuntz, A. The autonomic nervous system. Philadelphia: Lea & Febiger, 1929. Pp. xii + 576. \$7.00.—The first five chapters are devoted to the anatomy and physiology of the autonomic system as a whole, and include chapters on the autonomic ganglion cells and the embryological development of

the autonomic nerves. In chapters 6 to 15 a description is given of the functional relations of the autonomic system with the several organs innervated by it. The functions of each organ are considered at some length, an attempt being made to trace the nerve supply and locate the controlling nerve center for the different reflex movements of the organ. The chapter on the involuntary innervation of the eye includes a description of the rôle of both the parasympathetic and the sympathetic nervous systems in the nervous control of ocular functions. The last part of the book treats the pathological and clinical aspects of the autonomic system. Bibliography of 60 pages.—C. W. Brown (California).

4752. Lombroso, U. *Coordinazione umorale e coordinazione nervosa.* (Hormonic coordination and nervous coordination.) *Arch. di antrop.*, 1929, 50, 197-214.—Lombroso cites a number of grafting experiments made by himself and others to disprove the recent hypothesis that most vegetative processes are regulated and coordinated by means of chemical stimuli, hormones or glandular secretions thrown into the blood stream, and not by means of nervous stimuli or reflex acts. He proves conclusively that the pancreatic secretion is almost entirely stopped by blocking the vagus nerves. Experiments on the secretion and development of the mammary glands after confinement, or caused by mere peripheral stimuli such as sucking, or as affected by parabiosis, prove that the milk secretion is not due to the secretion of the ovaries but to nervous direction. Experiments on insects and lower vertebrates show that any extirpated organ can be regenerated on condition that the central nervous system which innervates that organ is unharmed.—R. E. Schwarz (New York University).

4753. Marston, W. M. Synapse. *Encyc. Brit.* (14th ed.), 1929, 21, 705.—C. H. Graham (Clark).

4754. Parker, G. H. Comparative nervous system. *Encyc. Brit.* (14th ed.), 1929, 6, 164-166.—C. H. Graham (Clark).

4755. Sherrington, C. S. Brain. *Encyc. Brit.* (14th ed.), 1929, 4, 1-9.—Physiology of the brain. Functions of different parts. Discussions of animal behavior experiments.—C. H. Graham (Clark).

[See also abstract 4853.]

MOTOR PHENOMENA AND ACTION

4756. Antonini, A. *Contributo allo studio della intossicazione acuta da vapori nitrosi.* (Contribution to the study of acute poisoning caused by nitrous gases.) *Arch. di antrop.*, 1929, 50, 344-376.—The author enumerates the various occupations in which nitrous gases and the dangers therefrom occur; and he describes the various clinical symptoms and anatomico-pathological changes caused by these gases in their victims. There is agreement among all experimenters on these points, especially on the macroscopical changes; but there is no perfect agreement on the histological changes, and there is entire disagreement when it comes to the pathogenesis and mechanism of this poisoning. He also gives a detailed description of his experiments on animals with nitrous vapors, made with a view to verifying the

findings of other observers and to settle the points under dispute. He found that in animals, as in human beings, the susceptibility to poisoning varies from individual to individual, the larger and better nourished offering longer resistance; but the symptoms and the macroscopical as well as microscopical changes are the same in all. In conclusion he gives the differential diagnosis to enable other physicians to differentiate poisonings caused by various gases.—*R. E. Schwarz* (New York University).

4757. Downey, J. E. **Handedness.** *Encyc. Brit.* (14th ed.), 1929, 11, 142-143.—*C. H. Graham* (Clark).

4758. Drever, J. **Instinct in man.** *Encyc. Brit.* (14th ed.), 1929, 12, 427-428.—*C. H. Graham* (Clark).

4759. Fadeyev, V. **The formation and differentiation of delayed conditioned food reflexes to compound stimuli.** *Paedology*, 1929, 1-2, 70-81.—Using the method of Ivanov-Smolenski (described in English in *Brain*, 1927, 50, 138-141—II: 1336), an attempt was made to form conditioned reflexes to various sequences of conditioned stimuli and to differentiate the orders of the sequences from one another. Each sequence consisted of 3-12 flashes of different electric bulbs of 2.5 volts placed at distances of 3 cm. from each other along a straight line. The flash of each bulb lasted for a second and was separated from that of the succeeding bulb by the same interval; at the end of the last flash food was shown in the positive but not in the negative sequences. 7 children of 9-10 years served as subjects. The results show striking individual differences both in the formation and in the differentiation of the reflexes. Some children easily differentiated the orders of the sequences from one another, while others could not do so even after hundreds of trials; still others became nervous or inhibited. Also, some children showed their reflexes only at the end of the sequence, while others responded to each flash separately. The differences are ascribed to differences in constitution according to the well known Russian typology of excitable, inhibitable, and labile nervous systems. The protocols of the experiment are not given in great detail.—*H. S. Razran* (Columbia).

4760. Kompanejetz, S. **Gibt es beim Menschen kompensatorische Augenbewegungen als reine Halsreflexe?** (Is there in man compensatory ocular movement as a pure cervical reflex?) *Monatsschr. f. Ohrenh.*, 1927, 61, 795-799.—Kompanejetz states that animal experimentation has failed to establish the existence of a cervical reflex for compensatory ocular movement. Due to the more lateral position of the eyes of lower animals we may not, however, infer that what is true of them applies also to man. Although de Kleyn and Versteegh observed nystagmus in a human subject when a cervical sensory nerve was stimulated, this evidence must be weighed in the light of the following considerations: (1) this is the only case cited in medical literature; (2) von Bárány and Borries have questioned its validity; (3) nystagmus and compensatory ocular movement are not established as being identical. There is no unequivocal evidence for the existence of a compen-

satory cervical reflex for movements of the eyeball.—*J. D. Larson* (Institute for Juvenile Research).

4761. Landis, C. **Psychogalvanic reflex.** *Encyc. Brit.* (14th ed.), 1929, 18, 674-675.—*C. H. Graham* (Clark).

4762. Lebensohn, J. E. **Oculovisceral reflexes. An oculogastric reflex experimentally demonstrated.** *Amer. J. Ophth.*, 1929, 12, 562-568.—Using a stomach balloon connected with a water manometer, tracings were made to demonstrate the effect on gastric motility of astigmatic errors and muscular imbalances artificially produced by the wearing of cylinders and prisms respectively. Errors of refraction or of muscle balance were definitely shown to exert a repressive effect on the motor function of the stomach, while upon removal of such asthenopic irritants there was a release from inhibition. The irritative reflex occurs by way of the trigeminal and splanchnic nerves. These experiments, confirming clinical experience, emphasize the necessity for closer cooperation between ophthalmologists and gastrologists as to the control of functional gastric disorders. 8 references.—*C. W. Darrow* (Behavior Research Fund).

4763. Lüderitz, H. **Beitrag zur experimentellen Untersuchungen des Wahlvorganges.** (Contribution to the experimental investigation of the choice process.) Göttingen: Akad. Buchh. G. Calvör, 1929. Pp. 94. M. 3.—This investigation was instigated by the work of the two Louvain psychologists, Michotte and Prum, on *Le Choix Volontaire*. These authors emphasized the fact that under their experimental conditions a decision of choice did not always occur through an act of will, but there also existed a passive automatic choice and choice-determination. Using their methods, Lüderitz's experiments showed that the arousal of an act of will is dependent upon conditions which are not fixed by the experimental procedure, insofar as it produces an experience of choosing. The cause for the willed act is the difficulty of executing the task. The "object" of the act of will does not concern the operation to be performed but consists in a resolution for more intensive concentration. With the consciousness of the difficulty a stronger impulse appears. The intrusion of willed acts is limited to rare exceptions. With the anticipation of the goal-idea comes a foreshadowing of the means of overcoming those inhibitions which oppose the fulfillment of the purpose. A certain intensity of inhibition is therefore necessary. The customary equivalence of an act of choice and an act of will in the literature is not justified. The choice-decisions in these experiments manifest themselves as processes of selection. Lüderitz accepts the following as established: (1) In the majority of cases the decision for a certain performance occurs without any special mental activity. (2) With inadequate motivation the decision appears either through a judgment or through an act of will. (3) With progressive automatization the processes of decision associated with a higher degree of consciousness disappear.—*O. Seeling* (Berlin).

[See also abstracts 4752, 4765, 4770, 4772, 4778, 4784, 4801, 4820, 4847, 4853.]

PLANT AND ANIMAL BEHAVIOR

4764. Buytendijk, F. J. J. Zur Untersuchung des Wesensunterschieds von Mensch und Tier. (Concerning studies in the difference in nature of men and animals.) *Blät. f. deutsche Phil.*, 1929, 3, 33-66. —The minds of men and of animals are alike in form; the difference lies in the content.—A. Römer (Leipzig).

4765. Corey, E. L. Effect of prenatal and post-natal injections of the pituitary gland in the white rat. *Proc. Soc. Exper. Biol. & Med.*, 1928, 25, 498-499. —The gonad of the rat fetus fails to respond to the pituitary hormone. The physiological effect first shows itself in both sexes between the tenth and fifteenth days of post-natal life.—H. R. Thompson (Stanford).

4766. Cornetz, V. Orientation, conservation de la direction, marchée compensée, polarisation. (Orientation, conservation of direction, compensated movement, polarization.) *J. de psychol.*, 1929, 26, 354-410. —A number of naturalistic observations concerning the spatial orientations of human beings, animals and insects. A great deal of the paper concerns the orientation of ants. The author believes that one may argue by analogy from human being to insect. Most of his discussion is based upon such analogy.—N. L. Munn (Pittsburgh).

4767. Crozier, W. J., & Pincus, G. Analysis of the geotropic orientation of young rats. I & II. *J. Gen. Physiol.*, 1929, 13, 57-119. —Equations describing the geotropic orientation of young rats under standardized conditions are of similar form, but have different values of the contained constants, when several genetically different races are compared. The values of the constants are characteristic for the several races. The biological "reality" of these differences (as formulated in the mathematical descriptions) is tested by investigating the behavior of these differences in inheritance. The result is of a kind demonstrating the efficiency of the original formulations and, at the same time, the definite inheritance of certain quantitative aspects of geotropic behavior. On the assumption that orientation on a sloping surface is achieved when the tension-excitations on the two sides of the body (legs) are the same, the angle of orientation (θ) can be taken as a direct measure of the total excitation. This is consistent with the equation, accurately obeyed by the initial races, $\Delta \cos \theta / \Delta \sin \alpha = -\text{const.}$, where α is the slope of the surface. Total excitation of tension-receptors must be regarded as involving, over a gross interval of time, (1) the totality of receptors with thresholds below a certain value, a function of the stretching force, and (2) the frequency of change of tension. The latter, largely determined by the frequency of stepping, should be proportional to the speed of progression. This is directly proportional to $\log \sin \alpha$. Hence $\Delta \theta / \Delta \log \sin \alpha$, plotted against $\sin \alpha$, should give a picture of the distribution of effective thresholds among the available tension-receptors in terms of the exciting component of gravity. For the races investigated this distribution can be resolved in each case into three groups. A "variability number" is used

which permits the demonstration that the variability of θ as measured is controlled by α , and is a characteristic number for each of the pure races used. Experiments in which weights were attached to the rats of one race show that $\Delta \theta / \Delta \alpha$ is modified in a manner harmonious with the assumption that the three groups of sense organs are discrete. In race K these three groups (I, II, III) are large, in race A small (i, ii, iii). F₁ rats of the cross between these two races show i, ii, III. F₁ individuals back-crossed to A and K give in the progeny results which are in harmony with the expectations. It is pointed out that these considerations imply a mode of definition of a gene somewhat different from that employed by convention; namely, a definition of the effect in inheritance as a function of some controlling, independent variable.—C. H. Graham (Clark).

4768. Hempelmann, F. Comparative psychology. *Encyc. Brit.* (14th ed.), 1929, 13, 690-706. —Biological aspects of comparative psychology. Discussion of tropisms, reflex movements, instinctive reactions and intelligent behavior. History of the science.—C. H. Graham (Clark).

4769. Hobhouse, L. T. Comparative psychology. *Encyc. Brit.* (14th ed.), 1929, 6, 167-170. —Definition and examples of how co-ordination of differences in the subject of the animal mind is effected by the science.—C. H. Graham (Clark).

4770. Huddleston, O. L., & De Foe, H. E. Reciprocal innervation of antagonistic eye muscles. *Proc. Soc. Exper. Biol. & Med.*, 1928, 25, 435-437. —Labyrinthine excitation in the dogfish results in conjugate eye movement. The extent of relaxation of the antagonistic muscle is never proportional to the contraction of the protagonist, and may be absent. When either the *rectus internus* or *externus* is contracted by ampulla stimulation, it relaxes upon stimulation of the opposite horizontal ampulla.—H. R. Thompson (Stanford).

4771. Koller, G. Versuche über den Farbensinn der Eupaguriden. (Researches on the color sense of Eupaguridia.) *Zsch. f. vergl. Physiol.*, 1928, 8, 337-353. —In investigating the color sense of these crabs, the author made use of the fact that they were accustomed to take refuge in the shells of *Cerithia*. These shells were painted with various oil-pigments, yellow, blue, red, green and a series of grays. They were presented to the crab, within the aquarium, in pairs: first a colored shell with each of the series of grays, and finally two different colored shells were presented at the same time. Three or four crabs were tested on each paired comparison, giving an average number of choices of about twenty. The author found that the crabs refused both the blue and the yellow shells, when presented with any one of the gray series, in about 80% of the cases. He concludes that they see yellow and blue as color values, and he attributes the aversion to these colors to their natural development. Neither red nor green gave consistent results with the gray series, and he holds that further experiments must be undertaken before it can be asserted that the crabs are red-green color-blind. "With leaf-green and olive-green objects the crabs did not behave essen-

tially differently from what they did towards objects of the corresponding degree of brightness." Comparisons of blue and yellow showed that the blue was chosen about two-thirds of the time.—W. D. Commins (Stanford).

4772. Kržiženecký, J. Über den Einfluss der Hyperthyreoidisation und der Hyperthymisation auf das Gewicht der aufgewachsenen Vögel. (The influence of hyperthyroidization and hyperthymization on the weight of adult birds.) *Zsch. f. vergl. Physiol.*, 1928, 8, 16-36.—This is a fifth contribution to the study of the antagonistic influence of the thyroid and thymus glands upon development. 41 adult doves were used in the experiment. They were divided into five groups: a control group, an experimental group, to which desiccated thyroid was administered in the food, an experimental group which received desiccated thymus gland, a fourth group receiving thyroid and thymus in the proportion of one to two, and a fifth group receiving both substances in the proportion of one to four. The weights of the birds were measured every three days for thirty days. The hyperthyroidized group showed a heavy loss of weight, the hyperthymized group only a small loss, while the administration of thymus in conjunction with thyroid gland showed a restraining effect upon the loss of weight due to the thyroid. These results are to be taken as showing "a regulative effect of the thymus upon the thyroid."—W. D. Commins (Stanford).

4773. Laird, D. A. A small animal cage with sanitary features. *Science*, 1929, 70, 241.—G. J. Rich (Boston Psychopathic Hospital).

4774. Louttit, C. M. Reproductive behavior of the guinea pig. III. Modification of the behavior pattern. *J. Comp. Psychol.*, 1929, 9, 305-315.—Guinea pigs of both sexes were placed in various types of environment in an experimental box and were given an electric shock whenever sexual contacts occurred. Although the work is exploratory in nature the author offers the following conclusions: "(1) All contact behavior can be suppressed under certain described conditions. (2) The reaction of the female may be a factor in the suppression of the male's behavior. (3) The suppression is maintained to a large extent even after two hundred days. (4) There is some evidence that offspring of conditioned animals exhibit similarly modified behavior." The author believes that the drop in the conditioning curves from one generation to another will bear further investigation.—N. L. Munn (Pittsburgh).

4775. Morgan, C. L. Animal behavior. *Encyc. Brit.* (14th ed.), 1929, 1, 960-963.—C. H. Graham (Clark).

4776. Myers, H. B., & Flynn, J. B. Effect of morphine in moderate doses upon growth of the white rat. *Proc. Soc. Exper. Biol. & Med.*, 1928, 25, 786-787.—Writers conclude that young rats injected daily with morphine in doses of 1 to 5 mgm. and mature rats given up to 10 mgm. per kilo weight exhibit a moderate handicap in growth and mature weight, respectively. A growth weight curve for young animals and a weight curve for mature rats are given.—H. R. Thompson (Stanford).

4777. Thomson, J. A. Tropisms. *Encyc. Brit.* (14th ed.), 1929, 22, 497.—C. H. Graham (Clark).

4778. Tuttle, W. W., & Dykshorn, S. The effect of castration and ovariectomy on spontaneous activity and ability to learn. *Proc. Soc. Exper. Biol. & Med.*, 1928, 25, 569-570.—Data given from an experiment on 5 litters containing 35 rats under 50 days of age indicate that castration has no effect upon either the learning or the activity of white rats under the age of puberty. Activity and learning are found to be closely allied.—H. R. Thompson (Stanford).

4779. Warden, C. J., & Rowley, J. B. The discrimination of absolute versus relative brightness in the ring dove, *Turtur risorius*. *J. Comp. Psychol.*, 1929, 9, 317-337.—All the previous literature pertaining to relational responses in discriminatory behavior is reviewed and the authors conclude that there is at present no evidence to show that the relational response is of a higher type than the response to absolute factors. The work of foreign investigators quoted so frequently by the *Gestalt* group is discredited because of their "failure to observe even the more primary requirements of methodology in this type of animal experimentation." "The purpose of the present experiment was to develop, if possible, a discrimination of absolute vs. relative brightness in the ring dove. The general method of presenting pairs of stimuli differing in brightness was followed, but the usual procedure was varied in one important aspect. Instead of presenting always the same pair in the training and then testing by means of substitute pairs, two pairs were used throughout a long training series, one member of each being always the same in brightness value . . . the positive stimulus was shown at every exposure along with now a lighter and now a darker stimulus patch." The stimuli were Hering standard gray cards presented in a modified Yerkes-Watson discrimination apparatus. The usual discrimination method was used. Approximately 1000 trials were necessary to set up the discrimination. The results obtained would seem to indicate "that discriminations are usually easier when based upon relative vs. absolute stimulus factors in the set-up. . . . The simultaneous presentation of stimuli in pairs seems to favor the use of relative cues in discrimination. When the problem is somewhat complicated, as in the present case, by the presentation of a different stimulus in connection with the standard in successive pairings, the animal comes to make use of absolute cues. It is likely that a further complication, in which a larger number of variables were used in successive pairings, would speed up the discrimination habit by emphasizing the absolute qualities of the standard stimulus. Perhaps, then, it is quite as 'natural' for an organism to discriminate on the basis of absolute cues in some cases as for it to depend upon relative cues in others."—N. L. Munn (Pittsburgh).

EVOLUTION AND HEREDITY

4780. Cook, O. F. Saint Luther. A Burbank cult, with an account of his wonder-working methods of plant breeding. *J. Hered.*, 1929, 20, 309-318.

—Burbank "worked like an inventor to produce plants, not as a research specialist to produce information."—*B. S. Burks* (Stanford).

4781. **Dayton, N. A.** Order of birth of mental defectives. *J. Hered.*, 1929, 20, 219-224.—A total of 10,410 retarded pupils examined by two travelling school clinics in Massachusetts are considered. These are divided into those testing above 70 IQ and those testing below 70 IQ on the Stanford-Binet. The conclusion is reached that the order of birth of the retarded or mentally defective child is apparently of little significance.—*B. S. Burks* (Stanford).

4782. **Dayton, N. A.** Intelligence and size of family. *J. Hered.*, 1929, 20, 365-374.—In a group of 10,455 retarded children tested by Massachusetts travelling school clinics the nativity of their mothers and the number of their siblings were investigated. The mothers were predominately foreign-born, although in the community as a whole the women were predominately native-born. This is partly accounted for by the larger size of the foreign families. Completed families with a child in the lower levels of intelligence are approximately twice as large as completed families with a child in the upper levels of intelligence. The stocks from which the retarded or mentally defective children are derived are more than maintaining themselves.—*B. S. Burks* (Stanford).

4783. **Gates, R. R.** Triplets in a relatively homozygous family. *J. Hered.*, 1929, 20, 209-212.—A set of triplet boys is reported. The boys resemble each other greatly in physical features, but as the parents and other siblings also resemble one another in numerous features, the conclusion is reached that the parents are homozygous for certain traits, thus reducing the probability that the triplets actually are of monozygotic origin.—*B. S. Burks* (Stanford).

4784. **Gesell, A., & Thompson, H.** Learning and growth in identical infant twins. *Genet. Psychol. Monog.*, 1929, 6, 1-123.—In the study which this monograph describes the attempt was made to accomplish something hitherto considered desirable but impossible, namely, to show the effect of training and of no training on the same individual. For this purpose identical twins were chosen, both girls. The observation period extended from early infancy to eighteen months. The object was to "determine first their developmental correspondence and, second, their developmental divergence as affected by training confined to one thing." In order to establish a physical correspondence of the twins, a series of measurements were taken and tables showing them and the differences are shown. The physical appearance, anthropometric measurements, palmar skin patterns, the right and left side measurements, dentition and temperature records are used, and seem to prove a fundamental parity of genetic constitution. Having shown that there was no biological disparity in either twin, it is assumed that one could be used as a control in a study of development. The developmental examination given was described in *Gesell's Infancy and Human Growth*. During the period from 36 weeks to 44 weeks examinations were given both children every two weeks with the re-

sulting judgment that at that time they were practically interchangeable. In an intensive experimental period of two hours, when both children were tested at one time, they seemed to have a similar basic pattern of behavior in dealing with similar objects, which gave added evidence of a genuine correspondence in the tendency to react to a given situation. Gesell gives the entire report of this comparative examination, and describes in detail his methods of testing, of taking records and of establishing their validity. An experimental training period of six weeks was given Twin T at the age of 46 weeks. This was confined to two activities, stair climbing and the manipulation of cubes such as are used in Gesell's test series. At 53 weeks Twin C, who had been kept as a control, was introduced to the same activities. The conclusions are stated as follows: Training does not transcend maturation. In other words, the training period undertaken with Twin T slightly anticipated her developing powers, and two weeks of training given Twin C between the 53d and 55th weeks was more than equal to the entire training period given Twin T. It was also impossible to detect differences in the cube behavior patterns of the two children at the close of the training period. There were certain divergences in their social reactions which seemed to indicate that Twin T had been affected by the social relationship she had established with her examiner. The difference in her response from that of Twin C was used as a mark of identification when the twins were again brought to the clinic together. Twin C, however, acquired the same sort of welcoming response toward the examiner so promptly that she was again confused with her sister. The training of Twin T and the even more drastic conditioning of C by illness and consequent isolation were judged to have accentuated certain emotional differences. But at 18 months the behavior of both children at the clinic seemed to prove the temporary nature of these influences, and also that the identity established in other spheres extended into the emotional field and was under the control of the growth process. The final section, Summary and Conclusions, reviews the methods and the results, and emphasizes the place that maturation holds in the learning process and the advantage of identical twins as laboratory subjects. A list of 24 references is given and Gesell's summary is repeated in French, German and Russian translations.—*Harriet M. Johnson* (Bureau of Educational Experiments).

4785. **Popenoe, P.** The child's heredity. Baltimore: Williams & Wilkins, 1929. Pp. xiv + 316. \$2.00.—A popular account of heredity in man, intended primarily for parents, but also for students and educators. The mechanism of inheritance is explained by a consideration of the child's relation to his ancestors, and illustrated by citation of details relating to the skin, eyes, ears, hair, teeth, and blood. Normal and abnormal development (including left-handedness and twinning), diseases of body and mind, and sexuality are discussed at some length. A large part of the book is given to psychical inheritance, including the concept of intelligence, different kinds of intelligence, inheritance of different

levels of intellect, temperament, artistic ability, the correlation between psychical characters, and the correlation between traits of mind and traits of body. Criteria are given for determining whether a trait is or is not hereditary, and the origin of variations is outlined in the light of recent genetic data. A final chapter discusses what should be the point of view adopted by parents toward heredity in their own children. Statements in the text are supported by references to a list of 418 titles in the bibliography.—P. Popenoe (Human Betterment Foundation).

4786. Popenoe, P. Some prodigies. *J. Hered.*, 1929, 20, 233-238.—Literature upon lightning calculators and mathematical prodigies is reviewed, and the achievements of the subjects are considered in the light of endowment, training, and special motivation. Various lines of evidence support the conclusion that mathematical talent with its large number of diverse capacities is inherited, since (1) it runs in families; (2) there is segregation, i.e., not all the members of a family are gifted alike; (3) it appears at an early age; (4) it behaves independently in the transmission; (5) it comes out in spite of discouragement; and (6) it is little influenced by training.—B. S. Burks (Stanford).

[See also abstract 4850.]

SPECIAL MENTAL CONDITIONS

4787. Abel, F. Erotikk og parfyme, luktesansens forhold til seksualdriften. (Erotics and perfume; the sense of smell as related to sex.) *Tidsskr. f. d. Norske Lægeforening*, 1929, 49, 917-925.—A general discussion interspersed with frequent illustrative examples from history and modern literature. "The problem of rational sexual perfuming is just beginning to be attacked. If it is going to be solved in a satisfactory way this will only be possible through an intimate cooperation between the sex-physiologist and the manufacturer of perfume."—M. L. Reymert (Wittenberg).

4788. [Anon.] A pioneer in sexual psychology. *Lancet*, 1929, 216, 455-456.—A tribute to Havelock Ellis.—W. T. Heron (Minnesota).

4789. Bensheim, H. Typenunterschiede bei Mescalinversuche. (Type differentiations in mescal experiments.) *Zsch. f. d. ges. Neur. u. Psychiat.*, 1929, 121, 531-543.—The valuable results which have been previously reported in regard to mescal poisoning bring up the question whether or not type differentiations are present. In the statement of such results care must be taken, since individual differences in resistance to the poisoning and in the progress of the intoxication must be considered, as well as differences in the capacity of the individual for introspection and for self-expression. In addition to the general functional changes in sensory, rational and emotional experiences certain characteristic momenta can be differentiated in cyclothymia and schizothymia. Cyclothymics have ornamental, quickly changing images; they see, as it were, impressionistic miniatures, the thought processes are associative, the affective condition alternates between euphoria and depression, and the experience borders on the real. Schizothymics, on the other hand, have more figurative images, see in an expressionistic

manner, think perseveratively, go easily into ecstasy, and experience a cosmic union. This is found in character types previously well known, but it is not so simple to assign the reactions to definite character types. On the other hand, the whole relationship provides a good explanation for personality structure, particularly as in the "passing off" there is often an "unmasking" which is comparable to the findings of psychoanalysis. It is remarkable, however, that there is very little working over of unconscious material, so that symbolic imagery is seldom found. Generally the "censor" remains on duty. At the same time one can, for example in the neurotic, make a rapid survey more quickly than by psychoanalysis. In mescal intoxication women prove to be less productive and less figurative. In general the intoxication leads chiefly not so much to an increase in productivity but rather to a depression of level. Mesal experimentation promises significant results for personality analysis.—S. Krauss (Freiburg).

4790. Bien, E. Über Gerontophilie. (Concerning gerontophilia.) *Allg. ärzt. Zsch. f. Psychotherap. u. psych. Hygiene*, 1928, 1, 519-528.—Description of a rare type of gerontophilia, wherein the love object had to be at least two decades older. Interpreted as due to the persistence of psycho-sexual infantilism. Treatment by Stekel's methods resulted successfully.—G. W. Hartmann (Pennsylvania State College).

4791. Bragman, L. J. Houdini escapes from reality. *Psychoanal. Rev.*, 1929, 16, 404-407.—Houdini, though happily married, is said to have had an Oedipus complex, and an unreasoning attachment for his mother—an attachment which violently stirred his entire emotional life. "It would seem that Houdini, because of the influence of a strong mother fixation, dramatized a return to the maternal womb by means of his strange attitudes, postures, and struggles in the course of his theatrical career."—M. B. Jensen (Michigan Central State Teachers College).

4792. Eriksen, R. Erotikk og livsanskuelse, med spesielt henblikk på psykoanalysen. (Erotics and point of view of life, with special reference to psychoanalysis.) Oslo: H. Aschehoug, 1928. Pp. 156.—A general critical treatise of Freud's system, illuminated and evaluated in the light of various psychological, philosophical, and ethical theories. One main thesis of the author is that Freud has been unable to give any satisfactory explanation of the ego-ideal. While in some instances Freud refers to the development of the ego as being on a par with the development of the libido in importance and depletes the little knowledge we hitherto have of the stages of development of the ego drives, in many of his writings he does not draw the full consequences of this fact and argues as if this knowledge did not exist. The following chapter headings are included: the psycho-analytic sex and love theory; practical psycho-analysis; Freud's naturalistic point of view; different forms of suppression; sublimation; sexuality and erotics; eros and idealism. The book is in its second edition.—M. L. Reymert (Wittenberg).

4793. Freud, S. Psychoanalysis. *Encyc. Brit.* (14th ed.), 1929, 18, 672-674.—C. H. Graham (Clark).

4794. Galant, J. S. Zur Psychopathologie des Traumlebens Maxim Gorkis: über zwei Träume Maxim Gorkis, ihre Deutung durch Leo Nikolajewitsch Tolstoi und ihre richtige Psychoanalyse. (Psychopathology of Maxim Gorki's dream life: two dreams of Gorki, their interpretation by Tolstoi, and their correct psychoanalysis.) *Allg. ärst. Zsch. f. Psychotherap. u. psych. Hygiene*, 1928, 1, 528-536. —An attack of delirium febrile in 1890 resulted in these two pathological dreams of Gorki. The symbolism is considered unique in that no normal release is suggested, but rather a preference for an ideal type of masochistic love. In this sense, the dreams are pathological.—G. W. Hartmann (Pennsylvania State College).

4795. Hahn, B. Symbolische Phänomene in der Psychokatharsis und ihre psychologische Bedeutung. (Symbolic phenomena in psycho-catharsis und their psychological meaning.) *Psychol. Stud.* (Ranschburg-Festschrift, 1929, 217-226.—The author describes a technique of psycho-catharsis, in which the patient, in a much shorter time than is required for a psychoanalysis, obtains insight into his neurosis. It is felt, too, that this technique is freer than the Freudian analytical technique from suggestion. Several case studies are given showing how the patient gains an understanding of his condition through the symbolic images which come during the half-sleep of the cathartic period; he interprets these himself.—D. E. Johannsen (Wellesley).

4796. Herbertz, R. Vom Leugnen. (Concerning deception.) *Psychol. Rundschau*, 1929, 1, 164-167. —Discusses Freud's statement that self-betrayal oozes from every pore. The author shows that the effort of the sub-conscious ego to give itself expression, namely the inherent desire to reveal the truth, comes into conflict with the conscious ego in its impulse for self-protection. Nietzsche asserts the same in "Man may deceive in his speech, but the mouth reveals the truth." This apparent paradox needs to be better understood, and when understood it disappears. Hellwig is quoted as believing that the sub-conscious urge is often not at variance with the wish of the conscious ego, a conclusion derived from his experience with convicts. The author quotes from the experiences of several who are dealing with criminals, and opens up the question of the possibility of harmony between the unconscious urge and that of the higher ego, and promises a future article setting forth his convictions.—A. B. Herrig (Central State Teachers College).

4797. Kochendörfer, H. Erfindertum, Genialität und Unterbewusstsein. (Inventiveness, originality and the subconscious.) Leipzig: Mutze, 1929. Pp. 26. M. 0.60.—Whence comes the idea and the vision of the new to the discoverer? The author maintains that the ideas are always unsought for and that the raw material for the inventor is gathered together in the subconscious. He considers as prerequisite to inspiration a happy hour in which the inventor acts as receiving antenna for the sub-sensory planes of events. The individual can contribute to this release of his thoughts by reversing his waking consciousness upon the subconscious.—O. Seeling (Berlin).

4798. Marston, W. M. Defense mechanisms. *Encyc. Brit.* (14th ed.), 1929, 7, 136-137.—Of normal and abnormal people.—C. H. Graham (Clark).

4799. McDougall, W. Suggestion. *Encyc. Brit.* (14th ed.), 1929, 21, 705.—C. H. Graham (Clark).

4800. Oczeret, H. Wandlungen der Psychoanalyse. (Changes in psychoanalysis). *Die Tat*, 1929, 21, 451-455.—A. Römer (Leipzig).

4801. Orlow, I. E. Das Problem des Traumes vom Standpunkt der Reflexologie. (The problem of the dream from the standpoint of reflexology.) *Arch. f. d. ges. Psychol.*, 1929, 70, 209-234.—Much remains obscure in the study of dreams. Not until the cerebral hemispheres have been sufficiently studied will this lack of knowledge cease. Dreams are for the most part a series of reactions to a change in the visual field of the sleeper. There are often two image groups present in the field of vision, which represent two separate types of associative combinations. The ideas of the first group associate themselves with definite stimuli. These always move according to the direction of the glance, whereby a sliding or shifting arises. Therewith the sleeper unconsciously alters the entire situation in his visual field by the mere transfer of his glance to another place. The ideas of the second group associate themselves with definite directions. At the moment of falling asleep or awakening there arises a battle in the visual field between the ideas of this group and the spots of color upon the cornea of the eye. From the objective side the dream picture is characterized by a weakening of the inner blocking in the continued work of the brain. Consequently the processes of assimilation of the peripheral stimuli are disturbed in an intrinsic manner.—H. S. Clapp (Southboro, Mass.).

4802. Pitkin, W. B. The psychology of happiness. New York: Simon & Schuster, 1929. Pp. 419. \$3.00.—A book written in popular style which tells what happiness is and how the state of happiness may be approached if not completely attained. The degree of happiness which a person achieves is dependent upon whether his equipment is adequate for the carrying out of his wishes. If a will pattern lacks mental equipment, bodily equipment, or the necessary flow of nervous energy, there is unhappiness, the degree depending upon the amount of disharmony. Happiness is easily attained by people with simple mind-body patterns, and by people who see only one goal before them and use their available energy for the reaching of that goal. The author presents "in a wide variety of cases a few of the most conspicuous wishes and their interplay, together with a mere sketch of the pattern and energies available for their execution."—M. Goodrie (Clark).

4803. Plant, J. S. Social factors involved in personality integration. *Amer. J. Psychiat.*, 1929, 9, 113-120.—The great social institutions, family, school, industry, are today all specialists. The effect on the individual's personality is to divide it. "Society—our modern culture—has embarked upon a colossal schizoid experiment." The psychiatrist's task is to synthesize, integrate the personality. But to achieve this, the psychiatrist today must first

integrate the milieu in which the individual lives. He must first attack certain social problems, become a social psychiatrist.—*S. J. Beck* (Boston Psychopathic Hospital).

4804. **Przybylski, L.** *Jugend und Sexualnot.* (Youth and sexual compulsion.) Dortmund: Wilh. Ruhfus, 1929. Pp. 31. M. 1.00.—The present difficult youth problem has been approached by the author from the viewpoint of a need for a philosophy of life. In the introduction a brief survey of contemporary intellectual attitudes is presented, with an explanation of the ruling cultural need from imperial times to the present. Philosophy, art, and literature are considered as built upon the idea of energy, love, and natural force. The results are projected upon that century which began as the "century of the child" and ended with killing the child. Russian, French, and American conceptions of marriage become the background upon which the crisis of child guidance is reared. Lindsey's suggestions for marriage modification are critically examined. This chaos might be remedied by a new meaning of human destiny such as that suggested in Tillich's *Realism of Faith*. Problems of marriage, social ethics, population, and racial hygiene are considered from this standpoint. A discussion of psychological adaptation in married couples is included. In this vein the outlines of a new sexual pedagogy with an ethical background are traced. A detailed analysis of the literature appears in the appendix.—*L. L. Przybylski* (Dortmund).

4805. **Read, C. S.** *Hypnotism.* *Encyc. Brit.* (14th ed.), 1929, 12, 23-24.—*C. H. Graham* (Clark).

4806. **Révész, G.** *Beschuldigung eines Lehrers wegen unzüchtiger Handlung durch seine Schülerinnen.* (Accusation of a teacher through his girl-pupils because of lecherous action.) *Zsch. f. angew. Psychol.*, 1928, 31, 385-409.—Case of a teacher, arrested in Holland last year for alleged lecherous behavior, on the basis of testimony of a ten-year-old child and several of her schoolmates, and acquitted in the second court. The writer, employed by the defense, gives his analysis of the conditions leading to the teacher's arrest, and of the testimony offered against him.—*F. S. Keller* (Harvard).

4807. **Schaer, K. F.** *Von geschlechtlichen Dingen.* (Concerning the sex problem.) *Psychol. Rundschau*, 1929, 1, 185-188.—Although psychology and pedagogy recognize the errors and hypocrisies of the past in dealing with the problems of the sex life, it is not yet wholly demonstrated that in the modern Freudian attack upon them a solution has been found. The clinician dealing with the normal individual meets quite a different problem. The whole sex problem in each individual is not separable from all his life-experiences, and all dealing with this problem must recognize its place in reference to the totality of life. Most of the disturbances arise from a conflict of the physical drive with the spiritual desire. Whenever a drive conflicts with a conscious or sub-conscious interference of the self, this total self must be brought into recognition before the specific problem can be attacked. Further complication in dealing with this problem arises from the

high degree of susceptibility of the individual to the mind of the mass, with the resulting conflicts between individual natural demands of the sex life and the prevailing group attitudes. In all handling of this problem, a solution involves the freeing of the personality in its totality, which will carry with it the adjustment of this specific problem.—*A. B. Herrig* (Central State Teachers College).

4808. **Schaer, K. F.** *Aus der psychologischen Beratungspraxis.* (A case taken from psychological clinical practice.) *Psychol. Rundschau*, 1929, 1, 211-213.—Case report of a twenty-year-old woman with a marked mother-adoration attitude that had led to an inferiority complex. The author follows through his remedial procedure leading to a recognition of the impossibility of human infallibility, and emphasizes the necessity of caution to avoid a shock to the personality that would lead to a still more undesirable reaction.—*A. B. Herrig* (Central State Teachers College).

4809. **Schilder, P.** *On homosexuality.* *Psychoanal. Rev.*, 1929, 16, 377-389.—A lecture read before the Washington Psychopathological Society, January 28, 1929, in which Schilder reports some cases of homosexuality which he has observed. From these he concludes that a male homosexual identifies himself with the mother, and that both the male and the female homosexual try to take the masculine part when they want to achieve superiority over the father. Theoretically we must assume, according to Schilder, bisexuality for all individuals, and that differences between the homosexual and the normal are quantitative rather than qualitative. "Activity and passivity are characteristic of every human being."—*M. B. Jensen* (Michigan Central State Teachers College).

4810. **Schlink, E.** *Persönlichkeitsänderung in Bekehrungen und Depressionen.* (Personality changes in conversions and depressions.) *Arch. f. d. ges. Psychol.*, 1929, 70, 80-118.—This article is an empirical psychological investigation of religion. The changes in personality undergone in conversions are compared with those taking place in depressions. In the various accounts of conversions noted by the author such utterances as these are common: "I am no more," "I am another," "I have two persons in me." The subjects for this research were 36 in number. Of these 33 were Evangelicals and 3 were Catholics. The subjects fell into three groups, namely: 9 cases of conversions; 12 cases of depressions, and 8 cases composed of individuals used for comparison with the converts because their religious development showed no trace of the experience of conversion.—*H. S. Clapp* (Southboro, Mass.).

4811. **Schroeder, T.** *The psychoanalytic approach to religious experience.* *Psychoanal. Rev.*, 1929, 16, 361-376.—A paper read before 250 clergymen visiting New York City in 1928. Schroeder discusses the foundations of religion as seen by the psychoanalyst in an impartial and dogmatic manner, necessitated by both the admitted subjectivity of psychoanalysis itself, and by the necessity for condensation. He states that "a psychogenetic study of a number of mystics and religious enthusi-

asts suggested to me that sex was the real basis of all mystical experience and of all religious enthusiasm." In support of this conclusion he cites the universality of phallic worship, and states that "perhaps the approximate universality of religion is due to the universality of sex."—*M. B. Jensen* (Michigan Central State Teachers College).

4812. *Sigg-Boeddinghaus*, —. *C. G. Jung über die Ziele der Psychotherapie*. (C. G. Jung on the aims of psychotherapy.) *Psychol. Rundschau*, 1929, 1, 153-157.—The reviewer calls attention to the unique place held by Jung as an expert in psychotherapy, and presents Jung's arguments in this field as given in April at Nauheim. Jung holds that psychoneuroses vary according to the influences of the spirit of the times, and demand modification of treatment according to individual needs. He holds that the Freudian and Adlerian methods have better applicability to the expansion of the psychic energy as manifested in youth than to the contraction of energy of maturity. Jung utilizes both the normalization and rationalization methods of Freud, but emphasizes the value of self-analysis of the dream, and of its interpretation by experts, as a means toward a readjustment of the self. The outcome of all methods must be a re-integration of the personality with a life-purpose firmly established.—*A. B. Herrig* (Central State Teachers College).

4813. *Stählin*, —. *Um ein neues Sexualethos*. (Concerning a new sexual ethics.) *Zsch. f. d. evang. Religionsunterricht*, 1929, 40, 64-74.—Explanation with sociological foundation.—*A. Römer* (Leipzig).

4814. *Thomas, N. W.* *Dream*. *Encyc. Brit.* (14th ed.), 1929, 7, 638-641.—Definition, conditions and types.—*C. H. Graham* (Clark).

4815. *Wilms, W.* *Persönlichkeit und Menschheitsfragen*. (Personality and questions of human nature.) Berlin: Engelmann, 1929. Pp. 91. M. 3.—This brochure is directed especially to all those who have freed themselves from traditional beliefs and are consequently making a more or less perplexed search for a new inner position. In contrast to Spengler, the author is persuaded that the European mind still possesses a wealth of powers and possibilities for further development. "What behooves us most is to labor upon ourselves, to strive after a stronger personality." Wilms is by no means of the opinion that religion as such has mismanaged affairs. He emphasizes the fact that faith in the spirituality of the universe has been strengthened concurrently with increasing natural knowledge. In his opinion we have also recognized that the ethically worth-while product of research has been respect for the creative spirit which operates behind phenomena. This essay describes the growth of consciousness of personality, and shows how emancipated minds have rescued humanity from churchly suppression, permitting it to progress from despotism to the constitutional state and finally to democracy. The author analyzes Spengler's position and attributes to him exaggeration, superficial and remote observation, and biased theorizing. Wilms indicates as the task of the intellectual leaders of the people the vivifying of religious forces through word and deed. Out of

faith and effort will then emerge a new life.—*O. Seeling* (Berlin).

[See also abstracts 4686, 4776, 4834, 4871, 4874, 4891, 4905, 4906, 4947, 4957, 4958, 4995.]

NERVOUS AND MENTAL DISORDERS

4816. [Anon.] *Prognosis and treatment of general paralysis of the insane*. *Lancet*, 1929, 216, 390-391.—This is a report of the discussion which took place at a joint meeting of the sections of psychiatry and neurology of the Royal Society of Medicine. A summary of the discussion disclosed the conclusion that of all treatments devised for general paralysis, malaria had the best record.—*W. T. Heron* (Minnesota).

4817. [Anon.] *Allergic and psychical factors in asthma*. *Lancet*, 1929, 216, 443-445.—A summary of a paper and discussion which followed before a section of the Royal Society of Medicine. Definite sensitivity to certain substances produces asthma only if certain psychogenic factors are present; therefore the psychogenic factors influence an illness of organic origin. This point of view is illustrated by case histories.—*W. T. Heron* (Minnesota).

4818. *Armstrong-Jones, R. George Edward Shuttleworth*. *J. Ment. Sci.*, 1929, 75, 213-219.—"The life of George Edward Shuttleworth is the history of the feeble-minded in England. It was his skilful and expert guidance which secured for them the first separate legislative enactment, viz., the Idiots Act, 1886, since replaced by the Mental Deficiency Act, 1913, and its subsequent amending Acts. This Act first made it possible to place mentally defective children under special educative methods of training and it also for the first time distinguished the care of the weak-minded from that of the insane. By its authority it was no longer necessary to describe backward children as lunatics or persons of unsound mind in the medical certificates." From his first appointment at Earlswood, Dr. Shuttleworth was promoted to become the first medical superintendent of the newly-founded Royal Albert Institution at Lancaster, where for 23 years he carried on the traditions of Earlswood. It may be claimed that Shuttleworth created an epoch in the treatment and care of the mentally defective in England, and he promoted and pursued the first modern principles in the education of the backward child. His last years were spent in London, where he became famous as a consulting physician and a recognized authority on the education, training and care of the feeble-minded. "He was a worker all his life, and to the last he was keen to follow up investigation and research into mental problems. He contributed extensively to the literature of his special branch, yet had many interests and diversions outside his purely professional work." For years he worked hard to get assured pensions for asylum workers, and after many years of strenuous work brought the matter to a satisfactory conclusion.—*E. F. Symmes* (Institute for Child Guidance).

4819. *Bailey, H.* *Nursing mental diseases*. (2d ed.) New York: Macmillan, 1929. Pp. 306. \$2.00.—The second edition differs from the first edition

chiefly as follows: reference is made to the prophylactic work of Felix Adler, and to children's habit clinics; early habit formation is stressed; the environmental factor in neuropathic tendencies is mentioned. Statistics for mental deficiency are given, and reference is made to training of defectives for social adjustment. The classification of the book is improved; qualification of nurses is placed in the chapter on "Nursing Procedures"; reference is made to the better personal adjustment of nurses who are psychiatrically trained. The following symptoms are added to the previous list: dizziness, cough, pain, fatigue, speech defect, and pupillary disturbances. The Johns Hopkins Hospital Behavior Chart is illustrated. Suggestions are given concerning the daily observations of patients' conduct, and concerning the nurse's attitude toward the patient's insomnia. A chapter is developed on traumatic psychoses, and one on the rarer organic psychoses, and mention is made of the medical treatment of paresis. There is a chapter on occupational therapy, and there are additions to the glossary.—*L. B. Hill* (Sheppard & Enoch Pratt Hospital).

4820. **Berkeley-Hill, O.** Habit-formation. *J. Ment. Sci.*, 1929, 75, 298-301.—By means of a habit-formation chart, the disagreeable habits of over fifty patients in a mental hospital in India were kept under special observation and treatment with satisfactory results. Close cooperation was maintained between the ward sisters and the occupational therapy department. Out of 58 patients 41 cures were effected. A weekly inspection by the medical superintendent served as a check on the progress of training. Simple methods such as strict personal supervision by the nursing staff proved sufficient in many cases. Sewing up pockets and removal of bags checked rubbish collecting; smoking or chewing gum helped to check copious spitting; deprivation of certain privileges of liberty were among the severest measures used. A general improvement throughout the hospital followed the abolition of segregation of the sexes in different sections, since which time the standard of individual behavior has been distinctly raised.—*E. F. Symmes* (Institute for Child Guidance).

4821. **Bunemann, O.** Über eine mögliche Psychogenese der gewöhnlichen Ischias. (A conceivable psychogenesis of ordinary sciatica.) *Allg. ärzt. Zsch. f. Psychotherap. u. psych. Hygiene*, 1929, 1, 536-538.—Citation of two cases of ischiagra arising after sharp emotional stress. Author assumes that since fear contracts the cutaneous cells, this disturbance—if intense enough—may be propagated to underlying tissues and result in an interpretation of pain.—*G. W. Hartman* (Pennsylvania State College).

4822. **Cimbal, W.** Das Zusammenwirken psychischer und körperlicher Heilwege in der Heilziehung. (The cooperation of mental and bodily health methods in health education.) *Psychol. Stud.* (Ranschburg-Festschrift), 1929, 255-263.—The problem of this study is the clarification of the chief methods of mental and physical treatment of neuroses. Physical difficulties frequently result in mental aberrations, while mental processes frequently

lead to physical maladies. Sometimes this crossing of cause and effect may be explained as dependent on the suppression of the real cause from consciousness, but a biological explanation which does not demand the use of any mental process as an explanatory principle is also possible. The author emphasizes the cooperation between mental and physical treatments which must be applied to get the best results. From this point of view the mind-body unity is found to be not only the origin of the neuroses, but also must in a large measure be considered when attempting to cure them. The author discusses the psychotherapy of the somatically founded types of social neuroses, giving their characteristics, the methods of treatment, etc.—*D. E. Johannsen* (Wellesley).

4823. **Danby, A., & Sykes, K.** Chronic mental disease associated with ovarian dysfunction. *Lancet*, 1929, 216, 129.—Reports the development of acute mania due apparently to disturbed sexual functions. The outstanding feature of the case was the remarkable exacerbations of mental symptoms at a particular phase of the menstrual cycle, and their complete remission after resection of the diseased part of the ovaries. An explanation of this phenomenon is suggested.—*W. T. Heron* (Minnesota).

4824. **Davis, G. E.** The special sense organs and their relation to the psychoses. *New York State J. Med.*, 1927, 27, 708.—The author writes of the disposition to rely on psychoanalysis in examining the insane. Physical investigation often receives little attention, the psychoses being attributed to some gradual, prolonged mental strain or to some overwhelming emotional disturbance rather than to somatic lesions or perverted body functions. Probably the somatic toxemias and perverted endocrine functions play a greater rôle in the etiology of the psychoses than is generally thought. It cannot be too strongly stressed that the diagnosis and treatment of the psychoses embrace a mutual consideration of the intimate interrelation and interaction of mind and body and that all investigations and therapy should be conducted accordingly.—(Courtesy *J. Organotherap.*)

4825. **Dederding, D.** Clinical and experimental examinations in patients suffering from Mb. Menière including a study of the problem of bone conduction. *Acta Oto-Laryngol.*, 1929, Suppl. X, 1-156; 1-213.—Morbus Menière is a disease characterized by various acoustic and vestibular abnormalities, the etiology of which has been little understood. The author has studied 135 cases, and appends as Vol. II. of this supplement the protocol for each case. The effect of the disease on the ability to hear fluctuates from nearly perfect deafness to practically normal function. All patients show nystagmus abnormalities. The variations in hearing are connected with the water metabolism of the body. Increased diuresis with loss of weight and thirst is marked by a considerable increase in hearing. The lengthening of bone conduction as compared to air conduction is due to an abridgment of the sound transmitting apparatus. In bone conduction sound is transmitted to the endolymph partially via labyrinthal wall-ligamentum annulare—footplate, par-

tially via tympanic membrane—ossicular chain—footplate. The abridged conduction in Menière patients is due to a laterally dislocated foot plate. This fixation and lateral dislocation is caused by a fluctuating pressure in the labyrinth due to abnormal vasomotor conditions.—*C. Landis* (Wesleyan).

4826. Doergens, —. *Halluzinationen, Illusionen und Visionen.* (Hallucinations, illusions and visions.) *Theol. u. Glaube*, 1929, 21, 476-482.—*A. Römer* (Leipzig).

4827. Gardner, W. E. A decade of transition in American psychiatry. *Southern Med. J.*, 1929, 22, 31-35.—(Courtesy *Social Science Abstracts*).

4828. Gibson, I. The attitudes of a patient toward his disease. *Hospital Soc. Service*, 1928, 49-55.—A chart for checking the attitudes of patients has been evolved which consists of seven groups arranged approximately in order of importance in treatment. The differences in each are indicated in four degrees. The author's purpose is to "give even the inexperienced worker a definite means of analyzing the attitudes and judging at the beginning of social treatment upon which patients the greater part of her time and effort may well be spent."—(Courtesy *Social Science Abstracts*).

4829. Goddard, H. H. Feeble-mindedness. *Encyc. Brit.* (14th ed.), 1929, 9, 130-142.—Definition, care and treatment, types, causes.—*C. H. Graham* (Clark).

4830. Graves, T. C. The relation of unresolved infective processes following acute infective diseases to the causation of mental disorder. *J. Ment. Sci.*, 1929, 75, 31-44.—A review of a number of cases of mental disorder associated with unresolved infection such as that following measles, scarlet fever, encephalitis lethargica, pneumococcal, intestinal, influenzal and other septic infection sometimes pure and sometimes mixed. Why the acute infective process associated with these diseases should leave behind it areas of unresolved infection is unknown, but it is possible that there may be some local maldevelopment of structure together with a general biochemical disorder.—*E. F. Symmes* (Institute for Child Guidance).

4831. Hall, J. K. An acute hallucinatory episode. *Virginia Med. Mo.*, 1928, 55, 539-542.—(Courtesy *Social Science Abstracts*).

4832. Hart, B. Induction of abortion from the psychiatric viewpoint. *Lancet*, 1929, 216, 658-659.—The only cases of psychoses in which induction of abortion is clearly indicated from the viewpoint of the psychiatrist are those cases of recurrent psychoses where the psychosis has developed in association with a former pregnancy or puerperium. So far as psychoneuroses are concerned no general rule can be laid down. "The attention of the psychiatrist must be focussed upon the central problem of the probable affect of allowing the pregnancy to continue upon the mental and nervous health of the patient, but factors of many kinds have to be considered in determining this probable effect, and the final decision must depend upon the estimation of the force and interaction of all these factors."—*W. T. Heron* (Minnesota).

4833. Heller, T. Über aphasische Störungen bei schwachsinnigen Kindern. (Aphasic disturbances in feeble-minded children.) *Psychol. Stud.* (Ranschburg-Festschrift), 1929, 174-177.—The author points out the difficulty in determining whether a child's dumbness is occasioned by stupidity or by an actual disturbance in the central nervous system, which governs the speech mechanism; his feeling is that aphasic disturbances of some kind are all too frequently diagnosed as feeble-mindedness or even idiocy.—*D. E. Johannsen* (Wellesley).

4834. Jones, E. Abnormal psychology. *Encyc. Brit.* (14th ed.), 1929, 1, 50-56.—History, classification, theories.—*C. H. Graham* (Clark).

4835. Jones, L. W. An investigation into the significance of perseveration. *J. Ment. Sci.*, 1928, 74, 653-659.—A series of sensory, motor, and ideational tests were given to manic and melancholic patients with a control group of normal individuals. The results show that the ideational tests employed were fairly successful in separating cases of mania from those of melancholia. Low correlations of the ideational tests with the motor tests seem to indicate that the former are independent of perseveration, but the likewise low correlation of the two motor tests would indicate that not even the motor tests can be regarded as perseveration tests for the manic group. This absence of correlation for this group probably indicates that large variations in type exist between individual cases, and for both groups the differences exhibited by the patients with regard to experience and facility in writing would affect the results of the motor tests. The results for melancholia are more consistent with the view that both ideational and motor tests are tests of some general factor of inertia. These preliminary results seem to weaken the validity of the view that manic patients are non-perseverators in sensory or motor tests.—*E. F. Symmes* (Institute for Child Guidance).

4836. Lundahl, J. Om familjevården på Gotland. (Concerning family care [of the insane] in Gotland.) *Svenska läkart.*, 1929, 24, 740-751.—Family care for certain classes of insane and feeble-minded was inaugurated at Visby, Gotland, January, 1927. The method is designed as the last step in the treatment of the insane or defective before complete dismissal from institutional supervision. Of 113 patients received during 1927 and 1928, 26 have been so placed, 54 dismissed, and 33 remain in the institution. The greater freedom of the home life and absence of supervision is believed to have distinct therapeutic value in the treatment of certain types of cases. The writer believes that the atmosphere of sympathy which may be developed in the carefully chosen small family home reacts favorably on the patient. The scheme also makes it possible to care for a larger number of patients in the central institution. The mental types which best lend themselves to this type of treatment are schizophrenia, imbecility, and in some cases dementia praecox, particularly of the hebephrenic type. The homes chosen are mostly those of the less well-to-do classes, especially those of small farmers. Small families seem most adaptable. The patients are employed in

small tasks about the house, and in many cases fit into the routine of the family as a member. The remuneration is large enough to appeal to people of the small farmer class, and no difficulty has been met in finding suitable homes. The success of the experiment rests largely on the degree of supervision which the placing institution exercises. Every home may be connected instantly with the central hospital, and automobiles are kept available at all times so that the homes can be reached in a few minutes. The common apprehension of danger, either to the family or to the community, has not been a serious obstacle. The author concludes that "family care" has introduced into an institution-ridden system an atmosphere of freedom, and has demonstrated not only the possibility of but the necessity for using freer methods of care for the mentally defective and diseased.—*C. T. Pihlblad* (Wittenberg).

4837. **Macklin, M. T.** Mongolian idiocy: the manner of its inheritance. *Amer. J. Med. Sci.*, 1929, 178, 315-337.—A number of theories which have been advanced to explain the occurrence of Mongolian idiocy are criticized. Evidence is presented that it is due to inherited defects. "There is no support for the statement that it is due to the presence of one pair of unit recessive factors. Its mode of inheritance appears to be much more complex, and figures are given showing the similarity between theoretical and actual results when the theoretical are based upon the assumption that the disease is due to the simultaneous presence in the germ cell of five pairs of recessive factors or two dominant and four pairs of recessive factors, carried in as many different chromosomes." The author takes care to point out that this agreement does not necessarily constitute proof. Bibliography of 163 titles.—*M. F. Fritz* (Iowa State College).

4838. **Middlemiss, J. E.** Some remarks on the certification of the mental defective. *J. Ment. Sci.*, 1929, 75, 45-52.—The Mental Deficiency Act of 1913 was amended in 1927, and many difficulties of certification have disappeared. "Whereas formerly it was necessary to prove the existence of mental defect from birth or from an early age, this frequently difficult and often impossible task is no longer obligatory. Mental defectiveness is now defined as 'a condition of arrested or incomplete development of mind existing before the age of eighteen years, whether arising from inherent causes or induced by disease or injury.' This brings within the scope of the Act the increasing number of cases met with as sequelae of encephalitis lethargica or other acquired cases occurring in later childhood or adolescence. In the amended Act of 1927 the terms of the definition of moral defect have been notably altered in several respects. Moral imbeciles as defined in the original Act were 'persons who from an early age display some permanent mental defect coupled with strong vicious or criminal propensities on which punishment has had little or no deterrent effect.' Moral defectives as now defined are 'persons in whose case there exists mental defectiveness coupled with strongly vicious or criminal propensities, and who require care, supervision and control for the protection of others.' Thus the necessity to trace

back the mental defect to an early age is eliminated, and the difficulties arising from the phrase, 'on which punishment has had little or no deterrent effect' are avoided. One fundamental point could be improved. The phrase 'coupled with' is unfortunate as it excludes a number of cases clearly meant to be included under this section of the Act, whose mental defect would hardly be demonstrable, except in so far as it is implicit in their anti-social conduct."—*E. F. Symmes* (Institute for Child Guidance).

4839. **Morgan, L. O.** Localized cell destruction and degenerative processes in the brain in idiopathic epilepsy. *Proc. Soc. Exper. Biol. & Med.*, 1928, 25, 444-445.—Brains from four typical cases showed a marked localized distention of the third ventricle, due to a shrinkage of tissue in the lateral walls. Marked hyperemia was confined to this region. The cell groups most affected are the substantia grisea, the mammillo-infundibular nucleus, and the nucleus tuberis.—*H. R. Thompson* (Stanford).

4840. **Morgan, L. O.** Further observations on mammillo-infundibular region of diencephalon: relation to epilepsy, dementia and the psychoses. *Proc. Soc. Exper. Biol. & Med.*, 1928, 25, 617-619.—The substantia grisea of the third ventricle is probably a secretory center for the suprarenal glands and seems to be concerned in some way with the dementias and psychoses, the mental deterioration in epilepsy and the epileptic fit. The nucleus mammillo-infundibularis and nucleus tuberis are probably secretory centers for the thyroid and parathyroid. The epileptic fit probably results from hyperactivity of the three nuclei of the infundibular region.—*H. R. Thompson* (Stanford).

4841. **Morgan, L. O., & Johnson, C. A.** Symptoms resembling epilepsy following experimental lesions in brain of the dog. *Proc. Soc. Exper. Biol. & Med.*, 1928, 25, 442-444.—Sixteen dogs with lesions in the mammillo-infundibular region of the diencephalon had periodic fits essentially identical with the characteristic human epileptic fit. Some symptoms suggest hypersecretion in the suprarenals.—*H. R. Thompson* (Stanford).

4842. **Mühl, A. M.** Problems in general medicine from the emotional standpoint. *Psychoanal. Rev.*, 1929, 16, 390-396.—Mühl gives case studies in support of the belief that emotional disturbances are intimately and causally connected with chronic ailments such as asthma, toxic thyroid, migraines, neuralgias, etc. The physiological basis for these relationships is drawn from the experiments of Cannon and of Ziegler.—*M. B. Jensen* (Michigan Central State Teachers College).

4843. **Mühl, A. M.** Tuberculosis from the psychiatric approach. A follow-up. *Psychoanal. Rev.*, 1929, 16, 397-403.—Conclusions here reported are based upon the study of 50 women suffering from pulmonary tuberculosis, and a group of 25 tubercular children. Inertia, fatigability, oscillating mood, perseveration, anger, irritability, mild to pronounced reaction to either masochism or sadism, suggestibility, restlessness, apprehensiveness, hypersensitivity, depression, regressive trends, loss of interest,

abnormal respiratory behavior, explosive effects, tendency to exaggeration, and selfishness were common to all in one adult group. The possibility that such emotional disturbances might affect bodily health is considered from the researches of Cannon, Crile, Pottenger, Kempf, and others. Case studies are presented to show that elimination of the emotional disturbance may eradicate chronic pulmonary tuberculosis. Mühl reasons that "since the great majority of people are infected at some time with tuberculosis, and only comparatively few of them break down with the chronic form in adult life, there must be some factor other than the tubercle bacillus which is responsible for the failure of the body to defend itself against the disease."—*M. B. Jensen* (Michigan Central State Teachers College).

4844. **Orton, S. T.** The need of consolidation of psychiatric thought by a broad program of research. *Amer. J. Psychiat.*, 1929, 9, 1-16.—Psychology and sociology, two non-medical sciences, are engaging in clinical practice, following the recent emphasis in psychopathology on environmental and social factors in behavior. Criticism of psychology in this practice is presented. The need for maintaining the medical viewpoint and leadership is stressed. Attention is also called to the imbalance between our knowledge of the workings of the mind and our knowledge of the physiology of the brain. The research program is therefore proposed. Problems suggested include: emotion and instinct; differential senility of brain cells as compared with others of the body; structural basis for amentia; possible structural factors in dementia praecox.—*S. J. Beck* (Boston Psychopathic Hospital).

4845. **Read, C. S.** Hysteria. *Encyc. Brit.* (14th ed.), 1929, 12, 26-27.—*C. H. Graham* (Clark).

4846. **Riese, W.** Krieg und Schizophrenien nebst Bemerkungen zur Psychopathologie der Schizophrenen. (War and the schizophrenias, with observations on the psychopathology of the schizophrenics.) *Allg. ärzt. Zsch. f. Psychotherap. u. psych. Hygiene*, 1928, 1, 509-519.—The frequency of schizophrenia has been attributed by Kronfeld to factors in the milieu and by Reichardt to purely endogenous features. Riese inclines toward the former view, although questioning the statistics and the accuracy of those diagnoses which indicate a heightened incidence of this disorder since the war. The true schizophrenic is not affected by catastrophes; the disasters of the battlefield and civil life disturb the "normal" more profoundly. The author cites a case of latent schizophrenia, a soldier apparently placid after years of horror who later gave evidence of the source of his malady in past combats. He objects to the fatalistic constitutional view of schizophrenia, insisting that traumatic crises are of paramount importance in its etiology.—*G. W. Hartman* (Pennsylvania State College).

4847. **Saunders, E. B., & Isaacs, S.** Tests of reaction time and motor inhibition in the psychoses. *Amer. J. Psychiat.*, 1929, 9, 79-112.—The problem: (1) Is there a significant difference, utilizable for diagnostic purpose, in the average reaction time of psychotic patients as compared with the normal?

(2) Is there a significant difference in the degree or type of variability in the reactions? "Simple-time" and "complication-reaction-time" experiments were conducted with 31 patients at the Sheppard and Enoch Pratt Hospital. As a supplementary experiment, a "motor inhibition" experiment was conducted with 29 patients. Some evidence of difference in behavior between psychotics and normals is found in these experiments, but it is not sufficient for diagnosis. Summaries and tables of the case studies are presented. Bibliography.—*S. J. Beck* (Boston Psychopathic Hospital).

4848. **Schultz, I. H.** Zur Struktur scheinlogischer Evidenzen bei Schizophrenen. (On the structure of pseudo-logical evidence in schizophrenics.) *Zsch. f. d. ges. Neur. u. Psychiat.*, 1929, 121, 575-576.—A schizophrenic infers from a horse taking a piece of sugar that he must remain at home and must not set out on his journey. He stands in a community of experience with a living being and lets his thought run on in an imitative-motor way. Pseudo-logically he experiences the evidence of his own sudden change of mind. As in echopraxia, the question is of a forcing in of primitive categories of function, for which there is also agreement in normal people.—*S. Krauss* (Freiburg).

4849. **Shanahan, W. T.** Epilepsy. *Encyc. Brit.* (14th ed.), 1929, 8, 654-655.—*C. H. Graham* (Clark).

4850. **Shattuck, E. H.** Mongolism in one twin. *J. Amer. Med. Asso.*, 1929, 92, 1593.—*G. J. Rich* (Boston Psychopathic Hospital).

4851. **Stockert, F. S.** Psychologie der Störungen des Sprachrhythmus bei Geisteskranken. (The psychology of disturbances of speech rhythm in mental disease.) *Monatsschr. f. Ohrenhk.*, 1928, 62, 994-1001.—Rhythm involves a systematic unification of successive events in such a manner that they are experienced as a pattern. The physiological rhythms of the organism are important factors in the process. Tempo, on the other hand, is a mechanical repetition without such unification. In mental diseases disturbances of the natural rhythms of expression are manifested. The shy individual with an anxiety neurosis is characterized by a hasty, high-pitched, shaking voice. The over-compensating neurotic speaks with a sharp accentuation, as if in the effort to forestall contradiction, while the words seem to stick in the mouth of the neurotic of self-satisfied compensating type. In the emotionless speech of the schizophrenic, the unifying rhythm is lost and only a mechanical tempo remains. On the other hand, an increased affective component accentuates the rhythms in the speech of the manic-depressive. Deterioration of the higher mental functions is typically characterized by a loss of rhythm of speech, while peripheral neural defects more commonly interfere with the tempo of expression.—*C. W. Darrow* (Behavior Research Fund).

4852. **Tidy, H. L.** Encephalitis lethargica. *Encyc. Brit.* (14th ed.), 1929, 8, 422-423.—Definition, symptoms, diagnosis and treatment.—*C. H. Graham* (Clark).

4853. **Travis, L. E.** Rate of reflex conduction in a cataleptic patient. *Proc. Soc. Exper. Biol. & Med.*,

1928, 25, 598-599.—The time required for conduction in the patellar reflex was markedly less than normal in a cataleptic patient. (.0059 seconds.) Improvement in the patient's condition was accompanied by increasing reflex time.—*H. R. Thompson* (Stanford).

4854. [Various.] Discussion on general paralysis at a general meeting of the Royal Medico-Psychological Association. *J. Ment. Sci.*, 1929, 75, 1-30.—Three main views as to diagnosis of general paralysis were expressed: (1) diagnosis based on clinical grounds only; (2) differential diagnosis from serological findings only; (3) consensus of various clinical and pathological tests, agreement of laboratory findings, physical signs, and clinical symptoms. As to pathology, in general it seemed to be felt that there was no special neurotropic strain of spirochaete in general paralysis. Reports differ somewhat as to success of treatment by malaria and other modern methods. Recovery after malarial treatment is found, but there is a question whether these cases were really general paralytics. One opinion given was that malarial treatment has little effect on the course of any cases of general paralysis. Early cases treated with malaria have showed improvement; some of these were also treated with salvarsan. The occasional fatal effects of salvarsan in early cases were noted. Improvement or cure followed treatment by tryparsamide in recent cases of the grandiose and exalted types with little confusion, in which there were many spirochaetes in the cortex and little vascular change.—*E. F. Symmes* (Institute for Child Guidance).

4855. Von Leupoldt, K. Die Beratungsstelle für schwachbegabte und nervöse Kinder an der Landesirrenanstalt Neuruppin. (Advisory bureau for feeble-minded and nervous children in the provincial asylum of Neuruppin.) *Allg. ärzt. Zsch. f. Psychotherap. u. psych. Hygiene*, 1928, 1, 542-544.—Describes the operation of a psychotherapeutic institute in conjunction with school and farm pursuits.—*G. W. Hartmann* (Pennsylvania State College).

4856. Von Stockert, F. G. Über Umbau und Abbau der Sprache bei Geistesstörung. (Concerning alterations and disintegration of speech in mental disorder.) Berlin: S. Karger, 1929. Pp. 82. M. 7.80.—This research aims to portray alteration and degeneration of speech with the various mental diseases. The first section deals with disturbances of expression as the primary emotional component of language. A physiognomy of language can be built upon the characteristic speech dynamics of the neurotic, which if elaborated might constitute a contribution to characterology. Speech dynamics as components of the total psychomotorium are dependent upon general biotonus. Melodic disturbances are attributable to the grammatical structure of the speech and the affective value of the content. Lack of relation between speech impulses and production of ideas leads to the phenomena of iteration. Maladies of articulation lead to impoverishment of melody. The second half of the book is devoted to disturbances in the representative function. Words undergo changes of meaning and new notions find expression in neologisms. The loss of logical organiza-

tion leads through the dissolution of the grammatical structure to a primitive affective principle of arrangement for the individual speech elements. Discourse loses its representative character and becomes an end per se. Loss of significance in the symbols corresponds to the complete disintegration of the personality, with nothing left but an uncoordinated motor function in the speech apparatus. An extensive annotated bibliography is appended.—*F. G. von Stockert*.

4857. Wertham, F. I. A group of benign chronic psychoses: prolonged manic excitements. With a statistical study of age, duration and frequency in 2000 manic attacks. *Amer. J. Psychiat.*, 1929, 9, 17-78.—Historical survey of the literature on prolonged manic states. Report on seven cases of prolonged manic excitement, with summaries of the case histories. Onset of the attacks was found to be in mature or later life. In the premorbid personality a "positive charge" in mood and activity is found. The three patients whose physical type was determined were pronounced pyknics. Elements appearing after prolongation of the manic psychosis were: reduction in manic over-activity and in intellectual productivity; tendency to fluctuations; delusional ideas. Even after years of psychotic behavior, patients preserve the integrity of their personality; signs of deterioration in pronounced form are absent. A potential recovery from the attack exists. Depressive attacks and circular phenomena are absent in these patients. Two conditions are noted as favorable to occurrence of the prolonged manic attacks: existence of a manic constitution, and increased "psychobiological rigidity." A report is given on variation in duration of manic attacks, frequency of chronicity, and relationship between age and duration of attack, in 1000 male and 1000 female recovered manic-depressive patients in New York civil state hospitals. Tables and diagrams of results. The author concludes from his study that a distinct group of benign chronic manic states may be singled out, characterized by the elements above cited.—*S. J. Beck* (Boston Psychopathic Hospital).

4858. Wilson, J. G. Some public health aspects of feeble-mindedness. *Texas State J. Med.*, 1928, 24, 189-192.—(Courtesy *Social Science Abstracts*).

4859. Young, W. W. Mental prophylaxis. *Virginia Med. Mo.*, 1929, 55, 800-802.—(Courtesy *Social Science Abstracts*).

[See also abstracts 4688, 4703, 4798, 4922, 4933, 4950, 4960, 4981, 5016.]

SOCIAL FUNCTIONS OF THE INDIVIDUAL

4860. [Anon.] Morals and movies. *Nation*, 1929, 129, 291-292.—Phyllis Blanchard says: "It (the motion picture) is perhaps the most useful of all the present mediums of expression in the inculcation of generally accepted standards of morality and behavior." How, then, can it avoid perpetuating childish standards in adults? In the field of nationalism, and even more in that of sex, the oversimplified moral category of childhood becomes the blind prejudice of maturity.—*M. P. Montgomery* (Faribault, Minn.).

4861. Bélisse, —. *Le problème du célibat féminin.* (The problem of the celibate woman.) *Grande Rev.*, 1929, 33, 478-482.—(Courtesy *Social Science Abstracts*).
4862. Biäsch, H. *Zur Graphologie.* (A contribution to graphology.) *Psychol. Rundschau*, 1929, 1, 201-204.—The author makes an analysis of types of handwriting. The article calls attention to the forms of lateral combination, especially as seen in the one-space letters. These he classifies as pronounced and unpronounced. He finds three common forms, the angular combination, the garland (under-curve), the arcade (upper-curve). There are combinations and variations of these, and the strength of line used in these combinations varies with different persons. He believes that the "form-niveau" of writing gives indication of the type of individuality, the inherent tendencies, the symmetry showing the affective tone. The article is a contribution to the field of character interpretation from handwriting, in which field Klages is the leader.—*A. B. Herrig* (Central State Teachers College).
4863. Binkley, R. C., & Binkley, F. W. *What is right with marriage.* New York: Appleton, 1929. Pp. xii + 261. \$2.50.—A detailed outline of a domestic theory conceived in the language of the social sciences. The authors begin with the assumption that marriage is a personal relationship, characterized by "permanent, personal, paramount loyalty," and proceed to develop the point that that marriage is the most successful which "maintains most durably the highest level of domestic interaction." The personal interaction in a natural family (a man, a woman, and possibly children) involves a tension, the pleasantness or unpleasantness of which is largely determined by the artistic technique evolved by the members. The value of children in the family "depends first upon their quality as cherished objects as balanced against their quality as competitors and second upon their behavior as members of the family . . . it is fitting to consider further their value in terms of individual purpose, and their place in an individual's plan." In order to enhance the values of marriage, the question of sex-monopoly should be decided by the individuals concerned and not by the community.—*M. Goodrie* (Clark).
4864. Carrara, M. *La medicina legale e l'antropologia criminale in Egitto.* (Legal medicine and criminal anthropology in Egypt.) *Arch. di antrop.*, 1929, 50, 215-250.—Legal medicine in Egypt dates back to the Ptolemaic period, as proved by many legal documents. Even at present forensic physicians are government officials attached to the administration of justice. The main work of the medico-legal corps is along toxicological lines, as most of the crimes in Egypt consist of poisonings. At Cairo there is a museum of legal medicine containing a collection of toxicological material, traumatological preparations, material illustrative of various types of infanticides, etc. The main penitentiary at Tura is a magnificent structure sheltering 3,500 prisoners condemned to hard labor for a period not exceeding 25 years. The inmates produce all that the institution needs, and the surplus is sold to the public. The food and sanitary conditions in all prisons are better than those for the general public. The reformatory at Giza, sheltering 710 juveniles, is more of a model educational institution than a house of correction. All trades are taught there, and conditions are excellent. While Egyptian penal institutions are advanced on the humanitarian side, they are behind the times in anthropological-criminological matters, such as methods of identification, classification, criminal statistics, psychiatric examinations, etc.—*R. E. Schwarz* (New York University).
4865. Casson, H. N. *Creative thinkers.* New York: Forbes, 1929. Pp. 199. \$2.00.—*W. S. Hunter* (Clark).
4866. Crawley, E. *Studies of savages and sex.* New York: Dutton, 1929. Pp. ix + 300. \$4.50.—A treatment of sexual anthropology, especially on the psychological side. Discussions of the sex life of savages in regard to chastity, forms of love, the orgy, history of the kiss and feticide are given prominent places under chapter headings. The two chief factors in the history of chastity are proprietary morality and adolescent inertia. Life and death, anointing, the oath, the curse, and the blessing are given special treatment.—*R. Stone* (Lehigh).
4867. Faut, —. *Weltanschauungsbedürfnis und Weltanschauungsnot.* (The need of and compulsion to a philosophy of life.) *Zsch. f. d. evang. Religionsunterricht*, 1929, 40, 49-64.—*A. Römer* (Leipzig).
4868. Genter, A. E. *An adult recreation survey in Pontiac.* *Playground*, 1928, 280.—An analysis of 426 questionnaires on adult recreation showed that recreation varied with occupation, age and sex. A comparison with a similar questionnaire for children showed that the children rated seven active enjoyments among the first ten while the adults rated only one. The conclusion drawn was that children should be taught fundamental skills which have carry-over values in adult life.—(Courtesy *Social Science Abstracts*).
4869. Gerould, K. F. *This hard-boiled era.* *Harpers*, 1929, 158, 265-274.—(Courtesy *Social Science Abstracts*).
4870. Glaeser, F. *Sinn und sozialer Denkszusammenhang.* (Sense and social coherence of thought.) *Arch. f. d. ges. Psychol.*, 1929, 70, 57-80.—A contribution to the theory of understanding of discourse and conversation. The author has attempted to show the way in which the social-psychological view offers a solution to the "problem of sense" in the formulation of thoughts. The "problem of sense" limited by grammar, logic and psychology is incomplete unless a social-psychological frame is part of the picture.—*H. S. Clapp* (Southboro, Mass.).
4871. Hartmann, H. *Kirche und Sexualität. Der Wandel der Erotik.* (Church and sexuality. The change in eroticism.) *Rudolstadt: Greifenverlag*, 1929. Pp. 229. M. 8.—*A. Römer* (Leipzig).
4872. Hartwell, R. *The harmonics of marriage.* New York: Christopher, 1929. Pp. 72. \$1.25.—Astrological speculations.—*N. L. Munn* (Pittsburgh).
4873. Hedderwick, J. A. *The fictionising of the*

press. *Fortnightly Rev.*, 1929, 125, 76-83.—(Courtesy *Social Science Abstracts*).

4874. Holmes, A. *The mind of St. Paul*. New York: Macmillan, 1929. Pp. 263. \$2.00.—"St. Paul stands out peak-like among the makers of history. . . . For the profit of our own piety and for the aid of practical religion, we will examine this man's personality and analyze the powerful, though humble, processes of his mind." This is the evaluation of St. Paul by Holmes, and the purpose he had in mind in the preparation of this book. Chapter headings include the following topics: the man; St. Paul's emotions; St. Paul's sentiments; Saul's world made whole; the man made whole; physical explanations of the conversion; physical-mental explanations; explanations by the subconscious; conversion explained by multiple personalities; spiritual explanations; St. Paul's faith; and faith and character.—*M. B. Jensen* (Michigan Central State Teachers College).

4875. Ideforss, H. *De primära interjektionerna i nysvenskan. I. Primära impulsjoner och imperationer*. (The primary interjections in modern Swedish. I. Primary impulsions and imperations.) Lund: Gleerupska Univ.-Bokhandeln, 1928. Pp. 365.—This study is a Ph.D. thesis from the University of Lund. The author takes it for granted that the rôle of the interjections proper, such as *ack*, *usch*, etc., is closely correlated with affective states. Other categories of words and expressions in the language may, however, functionally serve the same purpose as the interjections proper, and thus we arrive at the classical division of primary and secondary interjections. The three-fold divisions based on signification involved, such as interjections of a commanding, a sound-imitative, and a purely affective nature are referred to respectively as "imperations," "onomatopoeics," and "impulsions." In his endeavor to draw a boundary line between what should be regarded as language and non-language among human sound-complexes, the author analyzes the nativist and the empirical theories of the origin of language and discusses particularly those of Wundt and A. Marty, siding finally with Marty's conception of language as an acquired form of activity gained from gradual insight into its effectiveness. Expressions of affective conditions such as the cry of reflex nature, the simple forms of happy giggling, the involuntary manifestations of wrath, therefore, Ideforss does not regard as inside the sphere of language. The author develops an original "dominant-theory" and endeavors to establish it through an analysis of an array of word material. Entire groups of interjections may contain a common consonant-element, which in each case may find its explanation in the bodily effects of the affective state. Physiologically the consonant dominants may be explained from the mimic effects of the affective state and the vocal-dominance from the intra-bodily effects of it. About one-third of the book deals with psychological orientation and discussion, the remaining space with word-material of a more definite purely linguistic nature. There is a full bibliography.—*M. L. Reymert* (Wittenberg).

4876. Johansen, J. P. *Social implications of*

Americanization. *Quar. J. Univ. North Dakota*, 1929, 19, 168-184.—In contrast with biased or idealized discussions of what Americanization ought to be, this article presents the actual ramifications of Americanization. One by one, the major social-psychological experiences of a type immigrant are traced from the time he leaves the old country to the day when he returns as a visitor to his homeland and finds himself an American. From the standpoint of culture, it is pointed out that Americanization is to a large extent a blending and disintegrating process composed of a series of social-cultural phenomena which are at work destroying the unity and purity of the immigrant's cultural pattern, breaking down or wearing out his loyalty to the institutions, customs, and moral standards represented by his heritage.—(Courtesy *Social Science Abstracts*).

4877. Josephson, E. M. *The physiology of the singing voice*. *Science*, 1929, 70, 380.—The respiratory muscles, in addition to their rôle of providing a moving column of air to be interrupted by the vocal mechanism, are important synergists of the intrinsic and extrinsic muscles of the larynx in tone formation.—*G. J. Rich* (Boston Psychopathic Hospital).

4878. Keesing, F. M. *The Maoris of New Zealand. An experiment in racial adaptation*. *Pacific Affairs*, 1928, 1-5.—The Maori race has again attained a population of 60,000, its size in 1856, although 30 years ago it seemed clear that it would soon be extinct. This amazing fact may be due to improvements in child hygiene, but is probably due also to a replacement on the part of the younger generation of the "inferiority complex" of their parents by a proud race-consciousness resulting in a new vitality.—(Courtesy *Social Science Abstracts*).

4879. Latorre, R. *Los nuevos indios de América*. (The new American Indians.) *Amauta*, 1928, 3, 55-59.—There is in America a creative ideal for a new culture, but it is not the product of the Indians of the pure type existing before the conquest, as has so often been asserted. The purebreds have accomplished nothing and are intellectually and morally as dead as they were at the time of the conquest. It is mere fancy to suppose that because by some means or other they had developed a high civilization before the conquest they will now in some miraculous way lead us out of the present social conflicts to the realization of our desires for a better civilization. This task is destined to be performed by the mixed descendants of the Indians and Spanish, who have produced every great leader of the continent since the conquest and who are today represented by such men as Ricardo Rojas and José Vasconcelos.—(Courtesy *Social Science Abstracts*).

4880. Levy, H. *Mathew Arnold und die volks-characterologische Erkenntnis*. (Matthew Arnold and the concept of national characters.) *Zsch. f. Völkerpsychol. u. Soziol.*, 1929, 5, 303-325.—National characters include fine differences in social structure, public life, attitude toward religion, art, and intellectual enjoyment, as well as differences in economic practice. These characters must be estimated in terms of their origin in the basic life of the country or adoption from older countries; like-

wise they must be evaluated in contrast with the characters of other lands. England has never lacked for critics: Dickens, Wells, Wilde, Shaw, the music hall artists have subjected the customs of the country to biting satire; always, however, with the proviso that the traits were at any rate British. It has never been a popular step to criticize England by contrasting her with other lands. Arnold alone applied this measure; specifically he found England lacking in that idealism which actuates progress. He deplored the practical note which was evident in all forms of intellectual accomplishment. His strictures had their effect in producing changes in the attitude of the English toward matters of intellectual and spiritual significance. Even after the great economic changes of the past twenty-five years, and especially since 1918, it is possible to pick out national characters which have developed as a direct result of his writings. Arnold's great and fundamental contributions in the field of research in national characters will never be obscured.—*H. Marshall* (Stanford).

4881. **Marett, R. R.** *Anthropology*. *Encyc. Brit.* (14th ed.), 1929, 2, 41-46.—*C. H. Graham* (Clark).

4882. **Mariategui, J. C.** *Esquema de una explicación de Chaplin*. (Outline of an explanation of Chaplin.) *Amauta*, 1928, 3, 66-71.—Chaplin's *Gold Rush* is the most characteristic story of the time, as indicative as the works of Wells and Shaw. In it he meets all the tests applied to Dumas. It is the epic of capitalistic bohemia. As a satire upon gold it exploits a theme gradually penetrating the sub-consciousness of the world. Its philosophy is the antithesis of the bourgeoisie. In the *Clown* he develops this theme further. The English clown (unlike the Latin) is the proletarian philosopher. Shaw is an English clown who writes. The bohemian circus has flourished at a time when the bourgeois theatre has been driven to the wall by the movie, and Chaplin is the embodiment of both the circus and the movie. America imported him along with other English possessions when financial supremacy passed to the Yankees, but the Yankees have neither loved him nor understood him. He is the spokesman of the philosophy of revolt against the bourgeoisie, but he speaks as an artist rather than as a reformer.—(Courtesy *Social Science Abstracts*).

4883. **Odum, H. W., & Jocher, K.** *An introduction to social research*. New York: Holt, 1929. Pp. 39. \$4.00.—*W. S. Hunter* (Clark).

4884. **O'Neill, E. F., & Glover, R. J.** *Report on a study of one hundred cases of desertion*. *Family*, 1929, 9, 287-291.—Though other factors are discernible, difference of religion and mixture of nationality are prominent influences in producing deserters; 14 women and 86 men, all of whom constituted new cases for Roman Catholic diocesan bureaus since November, 1928, in six scattered American cities were studied.—(Courtesy *Social Science Abstracts*).

4885. **Peacock, F.** *Witchcraft and its effect on crime in East Africa*. *Police J. (London)*, 1929, 2, 121-131.—The witch doctor's power is enormous and his pseudo-hypnotic influence rouses natives to ac-

tions resulting in death, stock theft, suicide and other crimes with which no police officer can ever deal successfully unless he has made himself fully cognizant of witchcraft and its adherents. The witch doctor likes to establish himself in a district suffering from drought, cattle disease, or excessive infant mortality, which he ascribes to supernatural causes. By suggestion he implicates someone in the community as responsible for the spell, and the natives work up enthusiasm to the point of killing the alleged cause of their troubles. Further incentive to crime is furnished by witch doctors in the form of charms given to stock thieves making them invisible and immune from harm. These thieves do not appear nervous when caught until the charm is taken away. The witch doctor is also able to put curses on the natives very effectively, for they frequently culminate in suicides and murders.—(Courtesy *Social Science Abstracts*).

4886. **Picard, R.** *Les aspects sociaux de la rationalisation*. (Social aspects of rationalization.) *Grande rev.*, 1929, 33, 406-414.—(Courtesy *Social Science Abstracts*).

4887. **Poteat, E. M.** *The race mind and the religious message*. *Chinese Recorder*, 1928, 59, 753-760.—How does the race mind affect the content, the method of preaching and the manner of acceptance of the religious message? The question as to whether there is such a thing as a "race psychology" is considered and an attempt is made to analyze comparatively the psychology of the Caucasian and that of the Mongoloid races. The essence of the latter is humanism in a practical milieu, while the western mind is more legalistic. To the Oriental mind, the simplicity and practicality of the Christian message are obvious and welcome, but especially in the last 25 years the Christian approach from the West has been conditioned by every aggressive, activist and organizing faculty of the western mind equally in the realms of finance, matter and method.—(Courtesy *Social Science Abstracts*).

4888. **Prall, D. W.** *Aesthetic judgment*. New York: Crowell, 1929. Pp. 394. \$4.00.—A systematic account of esthetic judgments as records of direct experiences of beauty. The meaning of these judgments and the processes in esthetic experience are explained. There is a grouping of the sensuous elements of experience in general. Smells, tastes, and vital feelings are touched upon, but sound, shapes, color, and line, each of its own content and intricate orders, are treated more fully, and later those of the combined arts, especially the art of the theatre. These materials of esthetic experience are compared; artistic and esthetic values are compared. Rhythm, the temporal order, is treated in detail. The beauty of modern civilization in relation to language, music, painting, and architecture is discussed, also primitive art, symbolism, expressiveness of natural beauty, art and artists in life. The chapter on criticism stresses the basis of criticism on personal experience, and a probability of development into expert esthetic analysis. The relation of esthetic to general knowledge is discussed last. There are eighteen illustrations on the subject matter, some in color.—*M. I. Goodrie* (Wahpeton, N. D.).

4889. Roback, A. A. *Jewish influence in modern thought*. Cambridge, Mass.: Sci-Art, 1929. Pp. 506. \$4.50.—A comprehensive presentation of the Jews' activities in all phases of modern thought with separate chapters on the Jewish predecessors of Coué, the psychoanalytic movement, and the Jewish adherents of *Gestalt* psychology.—W. S. Hunter (Clark).

4890. Rudolph, M. *Neuere Stimmen über Seelenwanderung*. (New ideas on migration of souls.) *Die freie Volkskirche*, 1929, 17, 66-67.—A. Römer (Leipzig).

4891. Russell, B. *Marriage and morals*. New York: Liveright, 1929. Pp. 320. \$3.00.—A new sexual ethics is highly desirable because of advances in the knowledge of contraceptives, of the better understanding of human relationships derived from the Freudian school, of the increasingly minor rôle which the father plays in the necessary care of the child, and of changing practice in the relation of the sexes. The problems of sex should be of concern to society only where procreation is accomplished. The use of contraceptives makes this distinction in practice, and a rational sexual ethics must consider these new facts. "The great frequency of divorce in America comes, I think, partly from the fact that what people seek in marriage is not what should be sought, and this in turn is due partly to the fact that adultery is not tolerated. Marriage should be a partnership intended by both parties to last at least as long as the youth of their children, and not regarded by either as at the mercy of temporary amours. If such temporary amours are tolerated by public opinion or by the consciences of those concerned, each in its turn has to blossom into a marriage . . . if a woman has a fresh husband every two years, and a fresh child by each, the children in effect are deprived of their fathers, and marriage loses its *raison d'être*." Conventional morality is based first upon the assumption that sexual behavior is sinful and second upon the desire of the man to be certain of the facts of paternity. The assumption is irrational, and the desire can be met through the use of contraceptives. Love apart from children should be free, but procreation should be more carefully regulated than at present. "The doctrine that I preach is not one of license; it involves exactly as much self-control as is involved in the conventional doctrine. But self-control will be applied more to abstaining from interference with the freedom of others than to restraining one's own freedom. . . . The essence of a good marriage is respect for each other's personality combined with that deep intimacy, physical, mental, and spiritual, which makes a serious love between man and woman the most fructifying of all human experiences."—W. S. Hunter (Clark).

4892. Schmitz, O. A. H. *Individualismus und Idealismus*. (Individualism and idealism.) *Psychol. Rundschau*, 1929, 1, 158-163.—The author recalls that the German is regarded by the world in general as an individualistic idealist, in contrast with the stronger collectivistic attitudes of some other groups. He proceeds to an analysis of the concepts individualism, collectivism, idealism, seeking for an understanding of German personality and culture.

All ideals are of necessity collectivistic, for the group, and so no idealist is in the strictest sense an individualist. He discusses the apparent antinomy between individualism and collectivism, between freedom on the one hand and necessity on the other. He senses it as an intellectual category only. As each German is both an individualist and an idealist, it must be remembered that his highest idealism is accomplished when he finds his highest individualism in the realization of his ideal, namely in collective good. The ideal social culture is that one that gives largest opportunity for such self-realization within it. He appraises the Catholic church of medievalism and of today, the old Prussian state, and the present Marxian revival from this standpoint.—A. B. Herrig (Central State Teachers College).

4893. Schulte, H. *Experimentelle Prüfung der Rutz-Sieverschen Typenlehre*. (An experimental test of the Rutz-Siever theory of types.) *Arch. f. d. ges. Psychol.*, 1929, 70, 119-208.—The purpose of this experiment was to observe the muscular positions of the trunk which occur in natural, unaffected reading. The Rutz-Siever theory of types is briefly summarized. There is a detailed account of the apparatus used and the method and procedure of the experiment. The following are the most significant results of this research: Poetry and prose have a different character, each according to its content. The author, agreeing with Siever, found that Rutz's contention was invalid. Rutz affirms that each author belongs to a distinct type and that this shows in his various creations. Neither in oral nor silent reading did the experimenter find any trace of involuntary "position types." There is no definite relation between sound of voice and carriage. "Position" is of no special advantage in the creation of esthetic works. The association with a definite position type is entirely subjective. With subjects not instructed in the theory of types changes in position of the body were observed, but these were not similar for the various subjects. Those who had been instructed in the type theory had a tendency to assume the correct type of position when reading from the several authors. An objective survey of the changes in position has shown unconditionally that self-observation is faulty and insufficient even with psychologically trained subjects.—H. S. Clapp (Southboro, Mass.).

4894. Scripture, E. W. *Grundzüge der englischen Verswissenschaft*. (Principles of the science of English verse.) Marburg: Elwertssche Verlagsbuchh., 1929. Pp. v + 98. M. 7.50.—This book is a summary of the views concerning the nature of English verse which the author has arrived at in the course of the experimental phonetic studies which he has carried on from time to time during the past 30 years. His main thesis is that the conventional analyses of metrical structure into "feet," and the assumption that poets construct their verse by following, more or less exactly, definite patterns of such "feet," with the corollary assumption of "poetic license" or lack of technical skill to account for deviations from this pattern, are without any basis in fact. The answers to a questionnaire sent to a number of English and German poets seemed to indi-

cate that these persons were unable to analyze the processes by which they came to write their poems in one metrical form rather than another; the poems simply "came to them," the form seeming in some unanalyzed way determined by the content. To Scripture this means that "the source of the verse-form is the unconscious"; however, he analyzes this unconscious in terms of the individual's early training, beginning with the Mother Goose rhymes heard in childhood. These childhood rhymes are of fundamental importance, not only in their influence on the poet, but also as common patterns of rhythmical speech which determine the acceptability of the poet's work to the general social group. The true unit of verse is usually the line, and it is this line that exhibits a pattern, rather than the metricist's "feet." When a graphic record of spoken verse is examined, the portions corresponding to lines are usually continuous; there are no syllables or feet. There are, however, more or less periodically recurring regions of greater energy ("centroids"), and it is the number and regular spacing of these that constitute the rhythmic pattern. Between the centroids may occur varying numbers of "weak vowels" without a departure from the basic pattern. An elaborate classification, terminology, and symbolic apparatus are offered for the analysis of all possible patterns. Special analyses are made of the verse of Shakespeare, Milton, Shaw, Mother Goose, and the Old and Middle English alliterative verse.—*E. A. Esper* (Washington).

4895. Sichel, P. *L'homme du cinema*. (The man of the movies.) *Rev. Européenne*, 1928, 1250-1259.—(Courtesy *Social Science Abstracts*).

4896. Speich, R. *Einführung in die heilpädagogische Psychologie*. (Introduction to the psychology of remedial pedagogy.) *Psychol. Rundschau*, 1929, 11, 168-171.—This article is one of a series of contributions from the author, and deals with the social aspect in his thesis relative to the interaction between personality and society as concerned with the development of the individual. To accept the statement of Aristotle that man is a social creature is not sufficient for a comprehension of the vital relationship between ego and alter and with the social whole. This relationship is so close and interdependent that in all training, even in the development of the ego drive, both must receive recognition. The author proceeds to an analysis of the development of the individual self-estimate. He finds three factors at work here: (1) Self-estimation is dependent upon our estimation of others, and vice versa, our self-estimation determines our estimation of others. (2) The influence which our behavior exerts upon others also influences one's self-estimation and our estimate of others. (3) The same relation exists relative to the behavior reactions of the individual and the group-whole. The developmental process of youth cannot be understood except in the light of this whole complexity, and the related interdependence of the self and the other as they affect life-motivations. In the training of children this matter is still more complicated because of the immature nature of the child and its daily life contact with the mature mind of the trainer.—*A. B. Herwig* (Central State Teachers College).

4897. Stapledon, W. O. *A modern theory of ethics*. New York: Dutton, 1929. Pp. ix + 277. \$2.75.—Statements and criticisms of various theories of ethics, followed by the author's own. He holds that good is the "fulfilment or progressive fulfilling of the activities of teleologically active substances." It presupposes teleological tendencies on the part of objects and is entirely independent of consciousness. Tendencies are objective facts about things, dynamic in character; the sum of the tendencies of an existent constitute the nature of that existent. Biological tendencies need a complex of object and environment. Tendency in psychology means the needs of the person. Conation (conscious activity) involves cognition (awareness of a tendency) objective to the conative act. "Organic tendencies enter the mental content as impulses or enduring tendencies, and thus afford motives for conation. Beyond the strictly organic tendencies there emerge from the psychical activities . . . needs of the person. From the cognition of society yet another class of tendencies enters the individual's mental content and may determine his will." Concerning obligation, "we intuit teleologically active substances as exercising a moral claim." Free choice, "is determined by (a) cognition of objective tendencies; (b) the automatic behaviour-set of the organism; (c) the organism's contemporary capacity for psychical effort."—*E. B. Heim* (Price, Utah).

4898. Stern, H. *Die Notwendigkeit einer einheitlichen Nomenklatur für die Physiologie, Pathologie, und Pädagogik der Stimme*. VIII. *Die Registerfrage*. (The need of a uniform nomenclature for the physiology, pathology, and pedagogy of the voice. VIII. The question of register.) *Monatsschr. f. Ohrenhk.*, 1928, 62, 1083-1094.—After a review of the literature, Stern summarizes his own views regarding register as follows: (1) The three registers are characteristic both of female and of male voices. (2) The concept of register is defined on the basis of numerous criteria. (3) The concept of register is not a complex matter, but merely summarizes the observations of vocal pedagogy and scientific research.—*J. D. Larson* (Institute for Juvenile Research).

4899. Stern, H. *Die Notwendigkeit einer einheitlichen Nomenklatur für die Physiologie, Pathologie, und Pädagogik der Stimme*. IX. *Ist eine Verschmelzung (Vermischung) des Falsett- und des Brustmechanismus möglich?* X. *Die Kehlkopfstellung*. (The need of a uniform nomenclature for the physiology, pathology, and pedagogy of the voice. IX. Is a blending (mixture) of the falsetto and breast mechanisms possible? X. The position of the larynx.) *Monatsschr. f. Ohrenhk.*, 1928, 62, 1166-1176.—Provided there is a proper understanding of terms, a mixture of falsetto and chest tones is impossible, for this would involve simultaneously two different and mutually exclusive activities of the vocal cords. On the other hand, a mixture of registers or acoustic qualities is possible, since this may result from activity intermediate between the two pure forms. The position of the larynx with relation to its motility and approximation to the hyoid bone is an important determiner of

vocal timbre.—J. D. Larson (Institute for Juvenile Research).

4900. Taft, D. R. Cultural opportunities through race contacts. *J. Negro Hist.*, 1929, 14, 12-20.—Culture, always the result of contacts between dissimilar people, may be retarded by tendencies to uniformity, race prejudice, ignorance and isolating forces. By whatever method evaluated, race groups overlap in potential ability and it is consequently necessary to judge men as individuals rather than as members of physical groups.—(Courtesy *Social Science Abstracts*).

4901. Thurman, H. Peace tactics and a racial minority. *World Tomorrow*, 1928, 11, 505-507.—A minority group faces on one hand the danger of imitation of the least desirable traits of the dominant group, and on the other, that of despair due to the overwhelming expression of domination. A philosophy of pacifism for negroes and whites involves for one, the development of a technique of relaxation of the will to control and dominate, the other a relaxation of the will to hate those who would control and crush them.—(Courtesy *Social Science Abstracts*).

4902. Thurstone, L. L., & Chave, E. J. The measurement of attitude. Chicago: Univ. of Chicago Press, 1929. Pp. xii + 97. \$1.00.—130 opinions about the church were sorted by about 300 persons into 11 groups with equal-appearing intervals, the continuum being the degree of favorableness of attitude revealed by the opinions. The median value of the distribution for each statement (graphically determined) was taken as the scale value, and the interquartile range as a measure of ambiguity. A measure of irrelevance was obtained by submitting the statements to another group for indorsement or rejection of each statement; statements indorsed about as many times as other statements having widely different scale values were rejected as irrelevant. By the application of these two criteria the scale was reduced to a final form with 45 items; its reliability by the split-half method was about .92. The validity was further tested by comparing average scores for groups which were strongly suspected to be different in attitude (as persons actively affiliated with churches and others) and the suspected differences were clearly confirmed. The discussion is fully supported by theoretical analysis.—R. R. Willoughby (Clark).

4903. Ude, J. Der Kaufmannsstand als Kulturträger vor dem Richterstuhl des Sittengesetzes. (The mercantile class as a bearer of culture from the standpoint of the law of custom.) *Ethik*, 1929, 5, 319-326.—A. Römer (Leipzig).

4904. Vanderhyst, H. L'action civilisatrice et sociale par l'enseignement au Congo Belge. (Civilizing and social activity by education in the Belgian Congo.) *Congo*, 9, 777-783.—The writer has passed many years in the Belgian Colony and has published a good deal on matters pertaining to the education of the natives. He makes a survey of what has been done, and concludes that not only primary and secondary education of the natives is necessary, but that it is of great importance to establish a select social group, a native élite; this can only be done by establishing schools and universities

for the better endowed of the natives.—(Courtesy *Social Science Abstracts*).

4905. Vorwahl, H. Religion und Psychoanalyse. (Religion and psychoanalysis.) *Monatsbl. f. d. evang. Religionsunterricht*, 1929, 22, 168-170.—A. Römer (Leipzig).

4906. Wimberly, L. C. Folklore in the English and Scottish ballads. Chicago: Univ. of Chicago Press, 1928. Pp. xiii + 466. \$5.00.—The author has examined Child's collection of ballads, with a few collected since, with a view to determining the religious and magical concepts involved; a further work will deal with rites and ceremonies. The concepts are concerned with the nature of the future life and of the dead, under both pagan and Christian theologies. Each concept is amply illustrated from the original ballads. There is a bibliography of 9 pages.—R. R. Willoughby (Clark).

4907. Wiswedel, W. Vom Zweifel erlöst (Bekehrungsbericht). Aus H. Martensen "Zweifel und Glaube." (Concerning deliverance from doubt (notice of conversion). From H. Martensen's "Doubt and belief.") *Wahrheitszeuge*, 1929, 51, 106-107.—A. Römer (Leipzig).

4908. Wolf, A. Meaning. *Encyc. Brit.* (14th ed.), 1929, 15, 133.—Meaning is the creation of thought.—C. H. Graham (Clark).

4909. Wood, C. Hunters of heaven; the American soul as revealed by its poetry. New York: Stokes, 1929. Pp. 350. \$3.50.—Beginning with the poetry of the American Indian, and continuing through contemporary verse, with a background of English verse, the author comments on poetry as the expression of the desires hidden in everyone. Copious examples, with their interpretations, are given.—J. C. Spence (Clark).

4910. Young, P. C. Intelligence and suggestibility in whites and negroes. *J. Comp. Psychol.*, 1929, 9, 339-359.—323 white and 314 negro children, nine and ten years of age, of the third grade and above, were given the National Intelligence Test (Scale A) and a number of tests of suggestibility comprising the Binet Lines and tests devised by the author. The average score of the white children on the intelligence test was 72; the average score of the negroes was 40. The median for the whites was 75 as contrasted with 35 for the negroes. Among whites the correlation of intelligence with each of the suggestibility tests was positive but low or medium. The correlation between intelligence and suggestibility was shown to be smaller among the negroes than among the whites. "A clear-cut increase of intelligence with age in both whites and negroes, and an equally noticeable decrease of intelligence as we go from white children to light negroes and then to dark negroes are apparent." The author thinks it important that experimenters should mention whether they are working with "light, dark, or miscellaneous groups of negroes."—N. L. Munn (Pittsburgh).

[See also abstracts 4803, 4810, 4811, 4851, 4906, 4910, 4943, 4990.]

INDUSTRIAL AND PERSONNEL PROBLEMS

4911. Agnew, H. E. Advertising. *Encyc. Brit.* (14th ed.), 1929, 1, 195-205.—C. H. Graham (Clark).

4912. [Anon.] Vocational guidance. *Lancet*, 1929, 216, 620-621.—A general discussion of the efforts of the Industrial Fatigue Research Board and the National Institute of Industrial Psychology to reduce the number of misfits. Progress is slow but the outlook is hopeful.—W. T. Heron (Minnesota).

4913. Carrard, A. Zur Psychologie des Anlernens und Einübens in Wirtschaftsleben. (On the psychology of learning and practice in business.) *Schweiz. Schrift. f. ration. Wirtsch.*, 1927, No. 1, 67.—Three examples drawn from actual practice are given to demonstrate the application of psychology to apprenticeships. The first section deals with teaching apprentices of a shoe factory how to stitch seams. The second is a description of the method used in training tramway conductors in Zurich. The third deals with instructing locksmith apprentices how to use files. The apprentices, previously selected by means of a psychotechnical examination, the details of which are not given, were first of all informed of and well trained in the elementary, essential movements which had been discovered through a preliminary analysis of the work. When these movements were once acquired, the apprentices went on to more complex ones. However, along with this manual training, it was found important to arouse a proper comprehension of the work as a whole by means of concrete instruction and to maintain interest through offering varied work. As a result, uncertainty did not arise in the mind of the worker, who was thus acquiring only good habits.—M. R. Lambercier (Geneva).

4914. Carrard, A. Zur Psychologie der Arbeit. II. Zur Psychologie der Führung. (On the psychology of work. II. The psychology of leadership.) *Schweiz. Schrift. f. ration. Wirtsch.*, 1927, No. 3, 79-100.—In this article, directed to bank personnel especially, the author first discusses the problem of the employee's conduct towards his colleagues and towards his superiors. Second, apropos of the problem of administration, he shows how the use of the psychotechnics rating brings about a better understanding of an individual's psychological constitution and, aided by Daellenbach's ideas on decentralization of responsibilities, a more rational relationship between the chief of an organization and his subordinates.—M. R. Lambercier (Geneva).

4915. Carrard, A. Le développement de la psychotechnique en Suisse. L'Institut Psychotechnique de Zurich jusqu'en 1927. (The development of psychotechnics in Switzerland. The Zurich Psychotechnics Institute up to 1927.) *Schweiz. Schrift. f. ration. Wirtsch.*, 1927, No. 8, 47.—The author gives the history of the development of psychotechnics in his country from 1913 up to the formation of the Swiss Foundation of Psychotechnics in December, 1927. This foundation gathered together those interested in the subject, both institutes and individuals, for the purpose of common action and unification of methods. The Zurich Institute has examined about 3000 cases from 1923 to 1927. The author explains the principles on which the Institute has based its methods for solving its psychotechnical task. It has renounced the exact methods of science as being too long and often impossible to apply, preferring to make use of observation and the ex-

aminer's understanding and intuition. It gives priority to the examiner's interpretation of the results obtained, not wishing to rely entirely on an objectivity which is too often fallacious. Uniformity of external conditions cannot create the subjective uniformity necessary for a proper comparison of the mental states of individuals and the results obtained through examination. Main emphasis is given to that behavior which reveals certain traits of character. The author gives the schema of the psychological structure which forms the basis of the diagnosis. Along with the personal diagnosis, psychotechnics should establish a psychological profile.—M. R. Lambercier (Geneva).

4916. Giarrusso, G. Valutazione infortunistica di sindromi subiettivi di craniolesi. (Estimate of the mental symptoms in a case of cranial lesion.) *Arch. di antrop.*, 1929, 50, 385.—The author gives in this article his expert medico-legal study of a miner whose skull had been fractured during work and who claimed that his condition became worse after the court had had him examined by experts and allowed him a certain indemnity. The author gives a detailed clinical as well as mental examination of the patient, and his medico-legal opinion on the latter's claims.—R. E. Schwartz (New York University).

4917. Greenwood, M. The study of industrial hygiene. *Lancet*, 1929, 216, 203-206.—The author summarizes some of the work of the Industrial Fatigue Research Board. The work of the past ten years has been important chiefly from the standpoint of methodology. Much more rapid advance is expected to be made in the future. The statistical instrument is of much value in this type of work. The chief part of the article is concerned with citing advantages and dangers in the use of statistical procedures.—W. T. Heron (Minnesota).

4918. Grunz, A. Allgemeine und spezielle Arbeiterseelsorge, ihre psychologische Grundlegung. (General and specialized care for workers; its psychological foundation.) Berlin: Volkskraft-Verlag, 1929. Pp. 100. M. 2.75.—A. Römer (Leipzig).

4919. Poffenberger, A. T. Applied psychology. *Encyc. Brit.* (14th ed.), 1929, 2, 140-142.—History, rôle of measurements and divisions.—C. H. Graham (Clark).

4920. Ponzo, M. Pericolosità sul lavoro e profilassi sociale. (Hazards of labor and social prophylaxis.) *Arch. di antrop.*, 1929, 50, 329.—The author deals with the individual subjective factor of labor accidents and the prevention thereof. He shows that the worker's insufficient adaptation to his work is responsible for 49% of labor accidents and constitutes a menace not only to the individual but also to his fellow workers. In addition to this factor, there is the element of wear or deterioration that comes with age, as well as the effect of addiction to alcoholic drinks. He studied these factors of labor hazards in both normal and mentally abnormal workmen in various professions and concludes with a proposal for social prophylaxis which reconciles individual and social interests.—R. E. Schwartz (New York University).

4921. Rohwaldt, K. **Reklamepsychologie.** (The psychology of advertising.) *Schweiz. Schrift. f. ration. Wirtsch.*, 1927, No. 6, 27.—The report of a conference in which was discussed the effect on the public of the text and illustrations in advertisements.—M. R. Lambercier (Geneva).

4922. Röper, E. **Die Seele des nicht vollwertigen Arbeiters im modernen Kampf ums Dasein.** (The mind of the inadequate worker in the modern struggle for existence.) *Allg. ärzt. Zsch. f. Psychotherap. u. psych. Hygiene*, 1928, 1, 538-542.—Author claims that the economically incompetent attribute their ills to the environment and fail to find it in their ancestors. A prime task of mental hygiene is to secure affirmation of life and joy in work, despite the monotonous uniformity of daily existence.—G. W. Hartmann (Pennsylvania State College).

4923. Schulte, R. W. V. **Internationale Konferenz für Psychotechnik in Utrecht vom 10.-14. September 1928.** (Fifth International Conference for Psychotechnics in Utrecht, September 10-14, 1928.) *Psychol. u. Med.*, 1929, 3, 316-320.—About 170 members from more than twenty different countries attended. The relations of psychotechnics to medicine and to general biology were stressed. The problems discussed were too numerous to list, but three important subjects were (1) psychological causes of accidents, (2) temperament and character, and (3) practice and training. Authors, titles, and summaries of a few outstanding papers are given. Psychotechnics has developed in the last five years away from the mosaic-like psychology of elements toward a psychology of the higher mental traits, especially temperament and character. The next international conference will be held in Barcelona in 1929.—M. F. Martin (W. Springfield, Mass.).

4924. Skyberg, V. O. **The balance of education, adaptability, and morale in success of the handicapped.** *Rehab. Rev.*, 1928, 2, 267-270.—Education, adaptation and morale properly balanced should enable the handicapped to find himself in his relation to society. The only training which will avail the handicapped is highly specialized training. From that point on we have the problem of adaptation. The morale of the handicapped weakens when he realizes that he cannot prepare for all of life's possibilities. He should be cheered by the fact that everyone must make sacrifices, voluntarily or involuntarily. The real value of all education is in inspiration, and to it belongs the credit of success.—(Courtesy *Social Science Abstracts*).

4925. Smith, M. **Industrial psychology.** *Encyc. Brit.* (14th ed.), 1929, 12, 290-293.—C. H. Graham (Clark).

4926. Suter, J. **Zur Psychologie der Arbeit. I. Die psychologischen Seite der Arbeit mit besonderer Berücksichtigung der geistigen Arbeit im Grossbetriebe.** (On the psychology of work. I. The psychological aspect of work, with especial attention to mental activity in big business.) *Schweiz. Schrift. f. ration. Wirtsch.*, 1927, No. 3, 7-78.—The report of a lecture given before the personnel of a large bank. The author discusses the manner in which each worker should conduct himself, the psychological nature of man, the question of aptitudes and pro-

fessional ability, character, etc. He concludes by showing how rationally organized work and observation of psychological laws add to the happiness of an individual by increasing his output and personal contentment.—M. R. Lambercier (Geneva).

4927. Wolfer, E. P. **Zur Psychologie des Zeitungsinserates.** (The psychology of newspaper advertising.) *Psychol. Rundschau*, 1929, 1, 204-210.—The question dealt with in this article is the size of an insert for newspaper advertising. Experiments by Scott, Münsterberg, and Starch show that a full-page advertisement attracts more than twice as much attention as does a half-size page. The author calls attention to the fact that the higher priced an article, the greater the difficulties of a sale, and therefore the larger insert is demanded in order to arouse interest. The size is necessary not only for attracting attention but for conveying a message. Four factors are involved in advertising: (1) competition in the matter of size of an advertisement; (2) larger inserts less frequently used are more efficacious than small ones repeated more often; (3) some articles can never be advertised in small spaces; (4) there are today many more types of business that are in a position to use the large insert. The author lists a number of specific problems that determine the size of an insert.—A. B. Herrig (Central State Teachers College).

[See also abstracts 4699, 4702, 4999, 5001.]

CHILDHOOD AND ADOLESCENCE

4928. Adler, A. **Eine Beratung.** (An advisory counsel.) *Int. Zsch. f. Individ.-psychol.*, 1929, 7, 207-214.—A stenographic record of the report given by a physician to Adler as counsellor concerning a twelve-year-old boy. The items in the report are interspersed with a running comment by Adler treating pertinent topics such as causes, mistakes in training, and possible corrective measures. This is followed by a stenographic report of the separate interviews between Adler and the mother and the boy. The article is thus a concrete example of application of clinical technique based on Adler's *Individual-psychologie*.—O. N. de Weerdt (Beloit).

4929. Adler, Alexandra. **Technik der Erziehungsberatung.** (Technique of giving advice in child training.) *Int. Zsch. f. Individ.-psychol.*, 1929, 7, 196-202.—The objective of all child training is the development of stable self-dependence and facility in making social contacts and adjustments. The technique developed by individual psychologists for handling problem cases in their advisory counseling is given by the practical needs. Three types of children are found, the pampered, the hated, and those with organic inferiority. Personality difficulties usually date back to some change in the child's situation which he has failed to meet adequately. The technique for analyzing a problem case consists in determining the mistakes made in training and correcting by appropriate motivation the attitudes of both the parents and the child. Care must be exercised that the parents are not antagonized during the process of analysis.—O. N. de Weerdt (Beloit).

4930. [Anon.] **Vom Raum- und Zeitsinn der Siebenjährigen.** (Concerning space and time sen-

sation in seven-year-old children.) *Die Arbeitsschule*, 1929, 43, 406-413.—A. Römer (Leipzig).

4931. [Anon.] *Ratschläge für den Berater von einem grossen Manne*. (Advice for the counsellor from a great man.) *Int. Zsch. f. Indiv.-psychol.*, 1929, 7, 202-203.—The writer stresses the value of using suggestive rather than direct arbitrary statements when dealing with the parents of problem cases. An attitude of respect and a consultatory tone of voice arouse less opposition and lead to fewer failures in counseling.—O. N. de Weerd (Beloit).

4932. Bernfeld, S. *The psychology of the infant*. (Trans. by R. Hurwitz.) New York: Brentano's, 1929. Pp. xi + 309. \$4.00.—The theory contained in this book is based upon Freudian psychology, as the only all-embracing theory of the development of instinct. Sleep, crying, sucking, discharge movements, the psychology of the senses, and reflexes in the newborn are intensively studied, not as isolated phenomena, but as integral parts of a structural whole which includes the infant and its mother. Seeing, hearing, the activity of the oral zone, laughter and fright are interpreted as developmental progressions. Seeing is an activity whose purpose is pleasure-gain. "Pleasure-sucking" (of the fingers) gives the infant its first psychological independence of its environment. Hearing is not an activity but a libidinal phenomenon. "The sexual instincts, in the first quarter of the first year, snatch a third of the day from the rest-instincts, and fill it with pleasure-gain . . . but one can say the R-instincts (ego-instincts) . . . drown in sleep every stimulus-pleasure almost before it is enjoyed." The difference between the organization of the three-months-old child and that of the fetus is: the head has become adapted to the new biosphere; the rest of the body is in the libido-situation of the fetus. The maturation of the instinct of mastery in the third and fourth quarters is traced through grasping, crawling, sitting, climbing and standing. Walking, chewing and speaking are the chief developments of the fourth quarter. The folk-lore of teething is treated in some detail to show the universal recognition of its importance as a transition from infancy to childhood. Birth is interpreted as a trauma, to which all phenomena of adult life are traceable. Every anxiety state is mentally and physically a repetition of birth. Weaning is a frustration which ends the period of infancy; "so must the presentation of the psychology of the infant end with the psychology of frustration." This whole period may be designated "from the trauma of birth to the trauma of weaning."—M. P. Montgomery (Faribault, Minn.).

4933. Breu, W. *Beschreibung eines in der geistigen Entwicklung zurückgebliebenen Kindes*. (A description of a child retarded in mental development.) *Arch. f. d. ges. Psychol.*, 1929, 70, 13-56.—This article is a contribution to a scientific investigation of the personality of a 13-year-old boy, who is mentally retarded. The family history, which is given in some detail, accounts in part for the poor mental and physical condition in which the child was found. The physical examination revealed the child to be rachitic. A complete neurological examination indicated no special disturbances. His sense organs

were normal with the exception of the nose, which showed an adenoid growth. The boy was very much underweight and below the norm for height. The Binet-Simon-Bobertag tests revealed a comparatively great mental retardation. Tests from the profile method of the Russian psychiatrist, Rossolimo, were also used in studying the boy. During four semesters the boy was under close observation both at school and at play. Despite his poor mental and physical equipment the author states that the boy can find a place in society in which he may be of some use, since his tests showed him to be exact, conscientious, careful, and possessed of a love of order.—H. S. Clapp (Southboro, Mass.).

4934. Brickner, R. *Success and failure in childhood; the parents' rôle*. *Child Stud.*, 1929, 1, 13-24.—Success is the achievement of adjustment to the environment combined with satisfaction to the individual. Environment in childhood is largely within the control of parents; success and failure may also be controlled by adapting standards and activities to the child's individual capacities.—M. P. Montgomery (Faribault, Minn.).

4935. Brooks, F. D. *The psychology of adolescence*. Boston: Houghton Mifflin, 1929. Pp. xxiii + 652. \$3.00.—The author describes adolescent nature, growth and development. The aim is to facilitate the prediction, guidance and control of adolescent behavior. In the treatment of each topic the point of view that development is a continuous function throughout childhood and adolescence is emphasized. The author has critically evaluated the results of hundreds of leading investigations in the field of adolescent psychology. These results, bearing on the problems of physical and mental growth as well as moral, social and religious development of youth during pre-adolescence and adolescence, are organized in a usable form. The book contains 58 tables and 84 figures. At the end of each chapter is a list of problems for class discussion. A list of selected references is also added at the end of each chapter, giving in all over 900 selected references. A glossary of technical terms and abbreviations is appended.—H. S. Clapp (Southboro, Mass.).

4936. Bühler, C., & Hetzer, H. *Individual differences among children in the first two years of life*. *Child Stud.*, 1929, 1, 11-13.—Individual differences are to be found and their nature determined as early as the fourth month. Four groups of differences are described: (1) among normal children; (2) those with problems due to a special factor; (3) those whose deviation from normal is due to a faulty environment; (4) pathological cases. Pathological backwardness may be recognized by the middle of the first year, but intellectual disorders not before the end.—M. P. Montgomery (Faribault, Minn.).

4937. Burt, C. L. *Backward children*. *Encyc. Brit.* (14th ed.), 1929, 2, 882-883.—C. H. Graham (Clark).

4938. Cushing, H. M. *A perseverative tendency in pre-school children; a study in personality differences*. *Arch. of Psychol.*, 1929, No. 108. Pp. 55.—Perseveration has been conceived of in a general way as the inertia or lag of certain chemico-neural processes. For this study it is an individ-

ual's tendency to continue in a given mode of behavior when external pressure toward goal seeking has been reduced to a minimum. Seventy children between two and five were subjected to six experimental situations; 49 (group A) were from nursery schools affiliated with colleges, 21 (group B) from settlement nursery schools. Some of the situations were (1) dropping marbles through a hole in a cardboard box, (2) attempting to insert a "doctored" key into a lock, (3) playing with three performing toys (airplanes, seesaw, etc.) clamped to a table. The criterion of the perseverative impulse was the time spent in spontaneously manipulating the material during which there was no pause as long as 60 seconds. The time scores showed a wide range within the situations themselves. Evidence indicates the presence of a common factor extending throughout occupations of young children which involve manipulation materials of a simple repetitive sort. This trait is not explicable on the ground of chronological or mental ages. The trait appears to vary conspicuously from one individual to another. It is quite within the realm of possibility that much of the behavior ascribed to "stupidity," "disobedience," "defiance," "stubbornness," "lack of cooperativeness," etc., might better be explained as a high degree of a perseverating tendency. The trait should also be studied in relation to vocational pursuits. The trait is relatively constant for individuals throughout life.—*E. M. Achilles* (Columbia).

4939. **Elliott, G. L., & Bone, H.** *The sex life of youth*. New York: Association Press, 1929. Pp. 157. \$0.50.—The authors, in presenting information on sex matters and in evaluating the experimental approach of students to sex problems, are formulating the work of the commission on the relations between college men and women appointed by the Council of Christian Associations.—*D. Katz* (Princeton).

4940. **Friedmann, A.** *Familie und Erziehungsberatung*. (Family conditions and advice in child training.) *Int. Zsch. f. Individ.-psychol.*, 1929, 7, 179-183.—A discussion of the home conditions and family motives that lead parents to bring their child and his problems to a clinic.—*O. N. de Weerdt* (Beloit).

4941. **Gesell, A.** *Child psychology*. *Encyc. Brit.* (14th ed.), 1929, 5, 468-469.—Problems, methods, history. Experimental results of problems concerned with sensori-motor development, language, intelligence and personality.—*C. H. Graham* (Clark).

4942. **Graucob, K.** *Zum Problem des Idealdenkens in der Pubertät*. (Concerning the problem of ideals in adolescence.) *Päd. Warte*, 1929, 36, 801-806.—The arguments of an experimental study entitled *Meine Vorbilder und Ideale*.—*A. Römer* (Leipzig).

4943. **Herrmann, G.** *Formen des Gemeinschaftslebens jugendlicher Mädchen. Sozialpsychologische Untersuchungen in einem Fürsorgeerziehungsheim*. (Forms of the community life of young girls. Social-psychological studies in a public institution.) *Beihefte z. Zsch. f. angew. Psychol.*, 1929, No. 46. Pp. 160.—Detailed description of voluntary or spontaneous social organization in a home for delinquent

girls, 14.1 to 20.4 years old, based on author's personal observation of a total of 55 cases during a period covering 4½ months. The drives determining the more fundamental groupings of the girls are analyzed; four factors especially stressed in this connection are (1) the need for a sympathetic, congenial companion, (2) the "vital wish" or life ambition, (3) the fighting attitude, and (4) the formation of alliances. The problems of friendship, cliques, superficial groupings and leadership are discussed in the light of the reported observations.—*H. W. Nissen* (Yale).

4944. **Holub, M., & Neuer, A.** *Über nicht-individualpsychologische Erziehungsmethoden*. (Concerning non-individual-psychological methods in child training.) *Int. Zsch. f. Individ.-psychol.*, 1929, 7, 215-218.—Presents a discussion in the form of a dialogue between the two authors concerning the inadequacies of the psychoanalytic psychology and the inconsistencies of its practitioners when the analytic method is applied to delinquent and neglected children. Arguments are made and supported by quotations from psychoanalytic expositions that psychoanalysis has no direct applicability and no technique of its own for the treatment of problem cases in the clinic.—*O. N. de Weerdt* (Beloit).

4945. **Holub, M., & Zanker, A.** *Richtlinien und Indikationen für die Zuweisung an eine individualpsychologische Erziehungsberatungsstelle*. (Rules and indications for determining the need for clinical guidance.) *Int. Zsch. f. Individ.-psychol.*, 1929, 7, 177-179.—The article lists the various personality disorders and some of the physical symptoms which indicate the need for expert guidance and assistance in training a child. The symptoms peculiar to each of four ages are noted, viz., infancy, pre-school, school, and puberty. Beside the usual difficulties, special groups frequently requiring attention are orphans, adopted and step-children, the only child, children from broken or disturbed homes, and finally children with special organic defects.—*O. N. de Weerdt* (Beloit).

4946. **Johnstone, E. R.** *Is happiness worth cultivating?* *Child Stud.*, 1929, 1, 10-11.—The play spirit should permeate all child activities. This necessitates an atmosphere of encouragement rather than discouragement. "Visit your child instead of inspecting him."—*M. P. Montgomery* (Faribault, Minn.).

4947. **Knopf, O., & Wexberg, E.** *Arzt und Erziehungsberatung*. (The physician and advice in child training.) *Int. Zsch. f. Individ.-psychol.*, 1929, 7, 170-176.—The help of the physician in child clinics is needed as a complement to the work of the psychologist and educational counselor. His diagnosis is required to identify with certitude the cases of hysteria which may appear. In many cases of parental prejudices as to causes and remedies for various disorders a physician's word may be given a more ready hearing.—*O. N. de Weerdt* (Beloit).

4948. **Knopf, O.** *Prophylaktische Erziehungsberatung in den Elternvereinen*. (Prophylactic advice on child training in parents' associations.) *Int. Zsch. f. Individ.-psychol.*, 1929, 7, 192-195.—An introductory lecture on the general principles in child

training, involving rule by arbitrary authority versus objective criticism of the child's transgressions and mistakes, is given. This is followed by a forum discussion of problem cases presented by the parents in attendance. The great practical value of such meetings is urged. Illustrative cases are presented.—*O. N. de Weerd* (Beloit).

4949. *Levy, D. M.* A method of integrating physical and psychiatric examination. With special studies of body interest, over-protection, response to growth and sex differences. *Amer. J. Psychiat.*, 1929, 9, 121-194.—Twenty "behavior" children, referred to the Institute for Child Guidance, New York, were examined, immediately after the physical examination, for their special interest in or sensitivity to parts of the body. The responses fell into four groups: (1) anatomic variations; (2) height, weight, strength, and appearance; (3) body growth and maturity; (4) knowledge of sex differences and sex activity. Factors suggested by these twenty case studies, in explanation of the body interest, included: parental over-solicitude; illness or injury; exposure to sick people and talk about sickness; body variations in special contrast to patient's group; special experience. There is a report on conditions tending to create parental over-solicitude. The psychologic value of sensitivity to body differences among boys centers about competition in strength and size; among girls, about physical attractiveness. There are reports of the twenty children's attitudes to growing up, marriage, hair on the body, sex differences, and coitus; and of the effect of early exposure to and knowledge of nudity and sex on development of the personality. Summaries and tables of the case studies are given.—*S. J. Beck* (Boston Psychopathic Hospital).

4950. *Loewy-Hattendorf, E.* Kurs über psychotherapie an Kindern und Jugendlichen. (A course in the psychotherapy of children and young people.) *Allg. ärzt. Zsch. f. Psychotherap. u. psych. Hygiene*, 1928, 1, 544-548.—Account of a symposium on this subject in which a number of authorities participated.—*G. W. Hartmann* (Pennsylvania State College).

4951. *Lowrey, L. G.* Parental conflicts and their effects on the personality of children. *Child Stud.*, 1929, 1, 1-3.—There are three types of parental conflict: the conflict within the self; that between personalities; and that involved in the fact of becoming a parent. Their adjustment is essential to the development of the feeling of peaceful security which should surround the child if he is to achieve a normal personality, with a feeling of self-adequacy.—*M. P. Montgomery* (Faribault, Minn.).

4952. *Löwy, I.* Aus der Praxis der Beratungsstellen. (Case studies from the practice of various advisory clinics.) *Int. Zsch. f. Individ.-psychol.*, 1929, 7, 218-243.—Reports of a number of cases, giving an exposition of the analysis and of the method of treatment as indicated by the individual-psychological approach. The contributors are physicians and educators. Several pseudo-sexual cases and a number involving hysteria and other adjustments of disturbed children are shown to be expressive of maladjustments caused by the home conditions and relationships.—*O. N. de Weerd* (Beloit).

4953. *Müller, A.* Kunstfehler in der Beratungstechnik. (Technical errors in child training advice.) *Int. Zsch. f. Individ.-psychol.*, 1929, 7, 204-206.—The article deals with subjective errors based on the counsellor's attitude. The failure to preserve an impersonal attitude and the too arbitrary imposition by the advisor of his own opinions and plans on both the parents and the child constitute the more frequent and serious errors. It is easy for the counsellor to make the mistake made by parents, namely, establishing a personal relationship with the child. The latter then cheerfully avoids the transgressions under consideration for the sake of the advisor, without in the least altering his fundamental attitudes toward life. The counsellor must also guard against too dry and abstract an exposition in the course of his analysis, since he may thus fail to fire the imagination and to arouse the interest of the parents and the child.—*O. N. de Weerd* (Beloit).

4954. *Prescott, D. A.* Le vocabulaire des enfants des écoles primaires de Genève. (The vocabulary of primary school children of Geneva.) *Arch. de psychol.*, 1929, 21, 225-261.—This piece of research was carried out on 50 children of each sex and of every age from 7 years to 13 years and 11 months, viz., on 724 children who wrote 77,403 words. The method followed is comparable to that used by W. Dolch on primary school children in the United States. The children were asked to write all the words that they thought of during a 15-minute period. A statistical elaboration of the material received gave the following main results: (1) The number of words given on the average by each subject was from 35 for the 7-year-olds to 157 for the 13-year-olds. There were no sex differences. (2) The number of different words totalled from 793 for the 7-year-olds to 3222 for the 13-year-olds, with a marked superiority for the boys over the girls, the number of words given by them and omitted by the girls being much greater than the number given by the girls and omitted by the boys. (3) The number of known words, considered as such when they appeared in the lists of at least two children, reached 3482 for the 13-year-olds. Of this number, only 362 had been given by at least 50 children, representing 60% of all the words given and establishing the importance of a small number of words in the children's language. (4) A comparison of the words given by the children with the vocabulary of adults (Henmon's French Work Book) showed that at 7 years only 7% and at 13 only 41% of the words on Henmon's list were known by the school children, while 36% of the 7-year-old child's vocabulary and 53% of the 13-year-old child's did not figure in Henmon's list. Therefore, the vocabulary of the 13-year-olds is not rich enough to permit them a full appreciation of literary works, while a good part of the child's vocabulary is not in current usage in academic works. (5) The results obtained at different ages showed a regular development, a fact which suggests an intimate relationship between the increase of vocabulary and mental development. The author concludes with a list of 3482 words known by 13-year-olds with their frequency as compared with that found by Henmon in the writings of adults. Likewise, he indicates the age at which a word is known

as a comparison with the ages found by Descouedres for words in the vocabulary of children from 2 to 7 years of age.—*M. R. Lambercier* (Geneva).

4955. **Regensburg, J.** Individual differences among members of the same family. *Child Stud.*, 1929, 1, 3-6; 25.—Each child is differentiated from all others by his numerical position, age, sex, physical and mental endowment. These differences should be casually recognized, but not emphasized. Comparison with others is usually undesirable. The limits of growth should be accepted; and parents should adjust themselves to, as well as mold, the child's personality, which is his response to his total life situation.—*M. P. Montgomery* (Faribault, Minn.).

4956. **Seidler, R., & Zilahi, L.** Die individual-psychologischen Erziehungsberatungsstellen in Wien. (The individual-psychological advisory clinics in Vienna.) *Int. Zsch. f. Indiv.-psychol.*, 1929, 7, 161-170.—The movement had its inception in response to the pressing needs occasioned by the disorders following the world war. The twenty-eight clinics listed are sponsored by the Vienna section of the International Society for Individual Psychology. The executive committee of the society appoints or recommends an individual-psychologically trained physician and also an advisor in pedagogical therapy (*heilpädagogischen Berater*). Clinics are held regularly throughout the city on certain days in the early evening hours. All advisory help is free. The examination of the case and all discussions are held openly before all who may enter. This has been found entirely practicable, giving opportunity to parents, teachers, welfare workers, and others interested in children to learn the principles and methods used in handling the problem cases. It also furthers the development of self-confidence, since the child feels at once that others are interested and that he is with a council of friendly advisors and is not to be subjected to accusations.—*O. N. de Weerdt* (Beloit).

4957. **Sherman, I. C., & Sherman, M.** Birth phantasy in a young child. *Psychoanal. Rev.*, 1929, 16, 408-410.—A report of the case of a boy of seven (IQ 138), who had developed conflicts and abnormal behavior because he attributed the origin of children to food. Discussion of sex was discouraged in the home and the parents thought the child had little interest in sex, though he asked questions as to why his parents slept together, etc. He developed a distaste for and then a fear of food which changes in diet failed to remove. Physical examination revealed no organic disturbances. Analysis revealed a belief in the food origin of children and in the father as the provider of food. He feared that when he grew up he would have to marry someone and would not be able to provide enough food. Methods of treatment and results are not reported. The authors conclude that many children suffer from such phantasies, most of which escape detection.—*M. B. Jensen* (Michigan Central State Teachers College).

4958. **Speich, R.** Aus der Praxis der heilpädagogischen Psychologie. (A case taken from the practice of the psychology of remedial pedagogics.) *Psychol. Rundschau*, 1929, 1, 213-214.—The case of an 8-year-old boy, a scapegoat for others, whose

problem was centered in continued disobedience and aggressiveness. The author discovered that the attitude of the parents was encouraging the undesirable behavior patterns. He shows the child's favorable reaction to remedial treatment.—*A. B. Herrig* (Central State Teachers College).

4959. **Spiel, O., & Birnbaum, F.** Schule und Erziehungsberatung. (The school and advice in child training.) *Int. Zsch. f. Indiv.-psychol.*, 1929, 7, 184-190.—Shows that Paul Natorp's idea of "education for constructive social activity" gradually caused the problem of manual training for defectives to become the problem for educating the retarded. Under the leadership of Adler educating the retarded has become recognized as requiring the peculiar services which individual-psychology is able to render by showing the psychological causes for the difficulties.—*O. N. de Weerdt* (Beloit).

4960. **Ulbrich, M.** Das psychopathische (seelisch kranke) Kind. (The psychopathic (mentally ill) child.) Hamburg: Ch. G. Ueberreich, 1929. Pp. 16. M. 0.50.—This paper, written by a medically trained teacher on a background of many years' experience, aims to give the layman a short concrete account of the essence of psychopathy, to explain its symptoms and frequency, to indicate the known remedial agents leading to intelligible prophylaxis, to trace the affliction to some early individual peculiarity, and thus aid in freeing the nation from its fearful burden of misery.—*M. Ulbrich* (Magdeburg).

4961. **Wile, I. S.** Constipation and behavior. *Amer. J. Dis. Children*, 1929, 38, 570-589.—A paper read at the sixth annual meeting of the American Orthopsychiatric Association, New York, February 22, 1929. Authorities are mentioned who have indicated a belief in the dependence of physical and mental disorders on constipation. Control of bowel movements is a conditioning process brought about because of social demands. Six case studies are presented to show that maladjustment in children may be caused by parental concern over constipation. Parental concern is due to the prevailing idea that daily evacuations are necessary for health. The author believes that "constipation has comparatively little specific effect on intellectual activity and only a slight effect on physical vigor." Of greater importance in such child behavior problems are the "attitudes toward the bowels" and social stress.—*M. F. Fritz* (Iowa State College).

4962. **Zachry, C. B.** Ways and means of adjustment. *Child Stud.*, 1929, 1, 7-9.—It is the duty of parents to set up an environment in which constructive behavior may be developed and in which bad behavior is not satisfying; and to maintain an objective attitude toward the parent-child situation. Thus the child may have the needed sense of security while achieving the independence which makes for success in life.—*M. P. Montgomery* (Faribault, Minn.).

4963. **Zeininger, K.** Magische Geisteshaltung im Kindesalter und ihre Bedeutung für die religiöse Entwicklung. (The mental attitude towards magic during childhood, and its significance for religious development.) *Beihfte z. Zsch. f. angew. Psychol.*, 1929, No. 47. Pp. 155.—A non-experimental, non-

statistical study of magical and religious experiences in children. Both religion and magic are held to be based upon the belief in a supernatural power, but whereas the former is a relatively passive acceptance, the latter involves the attempt to use and control this power for selfish ends. The author suggests that the same mental characteristics are responsible for the magical beliefs of primitive man and of children; the causes for the differing expressions of the same attitude are to be seen especially in these two factors: (1) the child is an immature, relatively inexperienced being in process of development, whereas primitive man is, so to speak, a finished product; (2) the child lives in a world of his own, which is often incompatible with the world of the adult which constantly is being forced upon him, while primitive man lives in a society which sanctions and shares his beliefs. The psychological factors behind the magical attitude in children (perception, ideation and criteria of reality), the forms of expression of this attitude, its importance in the development of the individual personality, magic and religion, and the implications for religious education, are successively considered in the 5 main sections of the monograph. Bibliography of 166 titles, mostly German.—*H. W. Nissen* (Yale).

4964. Zerner, T. *Der Einfluss der Individualpsychologie auf die Elternvereine.* (That influence of individual psychology on parents' associations.) *Int. Zsch. f. Indiv.-psychol.*, 1929, 7, 190-192.—School reforms instituted after the revolution required the cooperation of parents to make the new measures a success. The parents of the children in each school were organized (in the same manner as the American P.T.A.'s). Under these auspices individual-psychologically trained teachers and physicians, gave single lectures, or courses of six or seven lectures on the solution of practical problems in child training according to the viewpoint of individual psychology. These local groups were then organized into districts and the whole united under the leadership of a city-wide organization. New clinics sponsored by these associations are constantly being organized and the extension work is steadily expanding.—*O. N. de Weerd* (Beloit).

[See also abstracts 4738, 4741, 4759, 4784, 4804, 4855, 4910, 4975.]

EDUCATIONAL PSYCHOLOGY

4965. Anderson, L. D. *A preliminary study of the effect of training in junior high school shop courses.* *Arch. of Psychol.*, 1929, No. 109. Pp. 39.—The study was concerned with the comparative value of training in five junior high school courses, mechanical drawing, sheet metal, woodwork, electricity, and printing. The purposes were: (1) to determine differences in the quality of work performed in two groups, one a central group with no training and one a group with previous training; (2) to determine whether there is any relationship between the differences in the quality of work done by both groups; (3) to study the differences in the average grades obtained by a group of students at the conclusion of 10, 20, 30, and 40 weeks of training in order to determine whether training in school courses had a cumulative benefit. The effects of practice

were studied in four school shop courses. The results show that the reliability of the indices of practice effect was low. The indicated practice effects were not always favorable. The differences indicating practice effect were due to variations in practice and not to group dissimilarity, except in three cases. Previous practice of the kind studied was unfavorable to work in printing, woodwork and sheet metal, but beneficial for work in mechanical drawing and electricity. The size of a practice effect is proportional to the number of similar factors in two situations.—*E. M. Achilles* (Columbia).

4966. Badger, A. J. *A standard test in fundamental mechanical drawing.* Bloomington: Pub. School Publ. Co., 1929. \$2.00 (pkg. of 25 each of Tests I, II, III).—Test I: Use of tools, linework, dimensioning, lettering. Test II: Projection, including sections and auxiliary views. Test III: pictorial drawing (isometric, cabinet, oblique). Teacher's manual and class record sheet. Standards in preparation.—*D. Shakow* (Worcester State Hospital).

4967. Braun, F. *Vom Einfluss des Schulalters auf die Schulleistungen.* (The influence of age of entering school upon performance in school work.) *Arch. f. d. ges. Psychol.*, 1929, 70, 1-12.—Some space is devoted to a discussion of Margraf's and Marbe's investigations in this field of psychology. The author's research revealed first, that in all classes and branches of the *Volksschule*, the older children in the group have better marks than the younger group. Just as the older children have better marks than the children in the middle group, so do those in the middle groups have better marks than the younger children. The influence of the age of entrance in school is different for the several subjects. The greatest influence of school age, especially in the lower classes, is in arithmetic. The difference in performance between the younger children and the older children is determined in large part by the younger age of entering school. The influence of age of entrance is most marked in the third grade. From the fourth up to the seventh grade its influence diminishes.—*H. S. Clapp* (Southboro, Mass.).

4968. Caswell, R. A. *A venture in vitalizing reference reading.* *School & Soc.*, 1929, 30, 433-436.—A description is given of the physical features of and methods employed in a small experimental library at Teachers College, Columbia University. The project is one inspired by C. E. Rush and W. H. Kilpatrick.—*H. L. Koch* (Texas).

4969. Cuff, N. B. *The problem of elimination from college.* *School & Soc.*, 1929, 30, 550-552.—Of the 292 freshmen entering Eastern Kentucky State Teachers College in 1928, the group who remained in school throughout the year as compared with those who were eliminated showed the following characteristics: they averaged higher in mental test performance and scholastic achievement, spent more time in preparation for the courses they carried, came more frequently from small families, showed a relatively higher percentage of girls than boys, entered school more frequently with the intention of remaining throughout the year, and sought less commonly the lowest type of certificate.—*H. L. Koch* (Texas).

4970. Dimock, H. S., & Hendry, C. E. *Camping and character*. New York: Association Press, 1929. Pp. xv + 364. \$3.50.—An attempt at a scientific treatment of a summer camp with a discussion of the methods and techniques used. This study was made at Camp Ahmek. Individual record cards were kept of each boy. Tables of frequency of forms of behavior observed in the boys and a classification of behavior needs on the basis of observed records are also given. Changes in behavior are recorded as a result of the summer's training. These were compared with parents' ratings of behavior changes in the boys. The amount of favorable change seems to decrease with increasing age. Parents are more optimistic in rating the improvement of boys due to the camp experience than are the camp leaders.—R. Stone (Lehigh).

4971. Doll, E. A. *Clinical methods applied to teaching*. *Educ. Res. Bull.*, 1928, 7, 251-257.—Doll presents the thesis that we can make a clinical analysis of the learning situation comparable to the analysis which we are accustomed to make of the learning person. The Vineland laboratory has made a definite "attempt to analyze certain learning situations from the point of view of the most natural sequence of steps, the general and specific requirements for mastering each step, and the measurement of progress in mastering each step." They have analyzed six industrial-training situations, and are making a study of conduct viewed as behavior which may be taught, etc. Doll suggests that similar studies be made of the teaching vocabulary and the child's learning vocabulary to avoid emotional confusion and rote learning of language facts.—E. B. Heim (Price, Utah).

4972. Doll, E. A. *The special class as a clearing-house*. *Educ. Res. Bull.*, 1928, 7, 295-302.—"A child is in need of special instruction when for any reason he is so different from the other children with whom he is placed in school that he cannot learn to advantage under the ordinary classroom instruction." The educational needs depend on three types of individual differences, namely, physical, social, and mental. In considering the backward group the author finds many who are handicapped in verbal aptitude, are incapable of finishing the sixth grade, and are therefore deprived of manual instruction, which is their only remaining field of self-expression and of which the performance tests show they are capable. Thus, in addition to clinical examinations for the very superior and the very subnormal children there should be provision for the non-verbal examination of children below verbal intelligence quotient of about 90. Special class training for this large group is very essential.—E. B. Heim (Price, Utah).

4973. Egenberger, —. *Das heilpädagogische Laboratorium und die praktische Heilpädagogik*. (The clinical-pedagogical laboratory and practical clinical pedagogy.) *Psychol. Stud.* (Ranschburg-Festschrift), 1929, 167-173.—A consideration of the problem of uniting theoretical and practical training for therapeutic pedagogy. The author points out the practical difficulties involved in obtaining such training, because of lack of time and (usually) lack of interest in the practical application of their knowledge on

the part of scientifically trained men. The part which auxiliary schools (*Hilfsschulen*) may play is pointed out and their importance indicated; the author concludes that it is essential that a scientific laboratory for therapeutic pedagogy be connected with these schools.—D. E. Johannsen (Wellesley).

4974. Gerberich, J. R., & Stoddard, G. D. *A personnel survey of Iowa high-school seniors*. *School & Soc.*, 1929, 30, 515-520.—Since 1923 about 1700 high-school seniors in Iowa have been given each year a battery of intelligence, aptitude, and achievement examinations with a view: (1) to determining some of the selective factors operative between high-school graduation and college entrance; (2) to discovering gifted high-school graduates; and (3) to evaluating the test battery as a prognostic tool. It was found that on most of the tests a large sample of the college freshmen of the state rated better than did the high-school seniors. Those students entering the University of Iowa were a highly selected group. Selection, moreover, seemed to continue vigorously during the first two years at the University of Iowa. The gifted high-school seniors, as contrasted with the less gifted, tended on the average to show a higher incidence of under-ageness, to come from families of higher occupational status, to choose the professions as their vocations, and not only to continue their education in college but to enter the larger colleges and universities of the state. The test battery scores correlated .50-.54 with University of Iowa freshman first-semester grades. These *r*'s are slightly higher than those obtained with an intelligence test given at the time of entrance to college.—H. L. Koch (Texas).

4975. Hall, M. L. *An appreciation*. *Tr. School Bull.*, 1929, 26, 72-79.—The work of the child study department of the Seattle public schools is described. A central plant contains a psychological examining room, an observation class and administrative offices. Psychological tests are given in the school building, but if necessary the child is asked to attend the observation class and the laboratory. They are returned to their own school with recommendations. The parent is interviewed when the child enters the observation class and when he is transferred back to his regular school. Housed in the building with the laboratory are the medical and dental clinics. A department of speech correction has been established. The article expresses appreciation for what Miss Goodhue, the director, has accomplished.—E. M. Achilles (Columbia).

4976. Lauritsen, M. *An educational experiment with a young deaf child*. *Amer. Ann. Deaf*, 1928, 433-442.—The methods used in securing communication with a 6½-year-old congenital deaf-mute are described. After 107 hours of instruction the child had learned to read and to lip-read a vocabulary of over 100 words, and could speak at least a dozen words spontaneously.—(Courtesy *Social Science Abstracts*).

4977. Lehman, H. C. *The oral versus the mimeographed true-false*. *School & Soc.*, 1929, 30, 470-472.—Nine classes involving 214 students were given the same true-false test in mimeographed and oral form. When the presentation of the questions was oral, the experimenter read twice, allowing a short

interval of constant length between items. Correlating scores based on the odd-numbered questions with those based on the even-numbered, the author found the oral presentation gave slightly more reliable results than the visual. The correlations between the two halves of the oral test and of the mimeographed were no higher than those between the two opposite halves of the tests when presented in the visual and auditory forms. The number of errors made by the students in the test given orally was no greater than that found in the case of the mimeographed form.—*H. L. Koch* (Texas).

4978. **Lincoln, E. A.** Ability group in theory and practice. *School & Soc.*, 1929, 30, 447-453.—After reviewing critically many of the experimental studies on ability grouping, the author concludes that the placement of a pupil should never be based on one, but rather on a combination of considerations, such as his educational achievement, his intelligence test performance, his teachers' judgments for certain qualities, etc. A plea is made for keeping flexible the grouping plan for an educational program designed to enlighten the community regarding the value of placing the child in the group in which he best fits.—*H. L. Koch* (Texas).

4979. **Lindsay, A. D.** Adult education. *Encyc. Brit.* (14th ed.), 1929, 1, 184-187.—*C. H. Graham* (Clark).

4980. **Lloyd-Jones, E. McD.** Student personnel work at Northwestern University. New York: Harper, 1929. Pp. xvi + 253. \$3.50.—This is a survey which is concerned with methods of student personnel work, not merely with point of view. It is the statement of what has been happening in the Northwestern University Personnel Department since 1919, when Walter Dill Scott initiated that work. It includes not only the researches of the author but of others who have helped gather and worked over the results found between the years 1922 and 1927. It is the specific description of techniques which should logically follow the general survey of Hopkins, who was the first director of the department. The spirit of the book is best revealed in Chapters 12 and 13. Chapter 12 is entitled "Research: a function of the personnel department." The author says: "Research . . . goes hand in hand with personnel service. It has been the policy of the Office for every member of the staff to participate in both service and research, for if the interviewers understand the techniques of personnel research, the information they discover is of greater value for later research investigations: and if those who are mainly interested in research also interview, they come to realize the practical value of their work." Chapter 13 is entitled "Personnel researches as an aid in college administration." The other chapters of the book lead up to and support the facts, figures and conclusions of these two. There is a list of fourteen handicaps eventually defined as existing in various combinations among superior, average and probation students. A second item is the description of bad curriculum advising on the part of faculty members. Four appendices give, among other items, reprints of (1) the Northwestern admission blank, (2) the program for Freshman Week, (3) a personnel ques-

tionnaire for psychology, and (4) student report on specific courses.—*E. A. Gaw* (Ohio State).

4981. **Masterson, W. E.** Health education for the moron boy. *Tr. School Bull.*, 1929, 25, 145-149.—A program was worked out for subnormal boys stressing (1) interest in good health and good habits, (2) improvement of muscular control, (3) development of sportsmanship and fair play and an interest in amateur and professional athletics, (4) instruction in first aid, confidence in medical profession, location and use of free clinics, importance of physical examinations and correction of physical handicaps. Sex education was given, in which individual counsel and instruction was found best.—*E. M. Achilles* (Columbia).

4982. **McCabe, M. R.** List of references on vocational guidance. *U. S. Bur. Educ., Lib. Leaf.* No. 36, 1929. Pp. 21.—A classified list of references, with annotations, of particular interest to those working with secondary school and college students.—*C. M. Louttit* (Hawaii).

4983. **Misfeldt, H. H.** Moderne skoletanker i Danmark. (Modern pedagogical thought in Denmark.) *Nordisk tidskr. f. vetenskap, konst och indus.*, 1928, 4, 499-515.—The ideals of Grundtvig and Kristen Kold, founders of the "Folk High Schools" in the first half of the 19th century, in important points anticipated the modern tendency of laying stress on the individual initiative of the child, as against a prescribed curriculum and preconceived aims. During the century that has elapsed since, pedagogical developments have been gradual and, conformable with Danish national psychology, not at any time revolutionary.—(Courtesy *Social Science Abstracts*).

4984. **Morgan, L. D.** How effective is specific training in preventing loss due to the summer vacation? *J. Educ. Psychol.*, 1929, 20, 466-471.—Two weeks' specific training of a sixth grade group in arithmetic, silent reading and problem solving produces a greater efficiency than is shown by the untrained control group. During the summer vacation the trained group did not lose as much in arithmetic as did the untrained group; in reading both groups increased, but the trained group showed the greater gain; and in problem solving the trained group lost the more. The specific training acted as a "buffer" to prevent loss of material previously learned.—*J. A. McGeoch* (Arkansas).

4985. **Mossman, L. C.** Principles of teaching and learning in the elementary school. Boston: Houghton Mifflin, 1929. Pp. xv + 292. \$1.90.—It is the conviction of the author of this volume that the schools are still failing to teach many of the kinds of activity which constitute the real basis of living, such for example as self-dependence, self-reliance, law-abidingness, cooperativeness, honesty, efficiency, intelligence, morality, etc. The reason why our tastes in literature, art, music and amusement, and our ideals and aspirations, are not higher, is to be found in the circumstance that the schools afford children such meager opportunities to learn these qualities through the actual practice of them. For a quarter of a century in a few well-known private schools teachers have

been demonstrating the practicability of conducting school life in accordance with wholesome principles of child development and growth, and in the present volume the author seeks to interpret for the teacher in any school the conceptions and principles of the new progressive education. The school should be a place that provides a rich, full living experience in terms of getting meanings out of facing the realities of life as they lived by the children constituting the school. The modern school will evaluate all the realities in the lives of a group of children brought together in a schoolroom for a year, and will then so organize them that they will afford the starting-point and the basis for valuable learning. To this end, the author, after discussing at some length the possibilities of the new conceptions of the learning situation, devotes the remaining two-thirds of her book to an analysis of the realities of the child's environment that may be used as the points of attack upon the several subjects of the curriculum, and gives a great deal of concrete suggestion as to how these realities may be capitalized for energetic and interested learning. Special attention is given to the social studies, language and reading, number, music, literature, and art. Considerable space is devoted to the guidance of learning and to the proper meaning of the recitation.—*L. A. Averill* (Worcester Normal).

4986. Myers, G. C. The price of speed pressure in the learning of numbers. *Educ. Res. Bull.*, 1928, 7, 265-268.—21 children in Grade 1A were taught numbers, etc., and later the mechanical learning of number facts, with emphasis on accuracy. After the learning period a test was given on 63 number combinations and all either answered correctly or omitted the problem. Eighteen were correct in all. Two years later ten of the above eighteen were given the same test five times in succession with increased emphasis on the speed with each trial. In the two years they had been taught by speed methods. All but one made errors on the first trial with more errors on the subsequent trials.—*E. B. Heim* (Price, Utah).

4987. Nolan, A. W. Techniques used in dealing with certain problems of college teaching. *Univ. Ill. Bull.*, 1929, 26, No. 40. (Educ. Res. Circular No. 52.) Pp. 25.—The circular presents "the techniques used by eighty college instructors in solving problems in classroom instruction, and comments made by the instructors on the problems."—*L. W. Gellermann* (Clark).

4988. Noll, V. H. The measurement of achievement in general inorganic chemistry. *J. Educ. Psychol.*, 1929, 20, 458-465.—A comparison of total raw scores on a comprehensive objective examination of 135 items, raw scores based on 15 scale items, and weighted scale scores shows that there is little difference between them in the measurement of group improvement. It is concluded, however, that gains expressed in terms of raw or weighted scale scores are more likely to be representative of true gains than are those expressed by raw scores. The raw scores based on scale items are best for prediction. In this case, weighting items in a scale adds nothing to its value, but scaling without weighting is valuable.—*J. A. McGeoch* (Arkansas).

4989. Prescott, D. A. *Le vocabulaire des manuels de lecture.* (The vocabulary in reading textbooks.) *Arch. de psychol.*, 1929, 21, 262-274.—This study is a continuation of one made by the same author on the vocabulary of children. He examined 7 textbooks used in Geneva or in France by children from 7 to 13 years of age. As the main purpose of these books was to form good reading habits, the author investigated them in regard to their value in bringing about a rapid formation of the psychophysiological processes peculiar to reading, placing emphasis on silent reading. For this purpose, he made a statistical study of words taken from a fraction of each textbook. About 30,000 words were classified and then compared either with the list of words known by the children for whom the manual was intended or with a literary vocabulary for adults (Henmon's French Word Book). With the exception of one book, all the texts had too wide a vocabulary to give the children a correct and fluent reading ability. Too many new words were introduced into the texts, causing the children to hesitate in their reading. Furthermore, these words were not repeated frequently enough, a condition which impaired their easy acquisition. Only 10% of the new words were retained by the student after a reading of the text. 30% to 40% of the textbook words were foreign to the life of the child. 20% of them were found neither in the list of the children's vocabulary nor in Henmon's list; hence, these words were neither those used ordinarily by the children nor those usual in literature. Accordingly, the author proposes a revision of the reading textbooks in order to eliminate the 20% of words which are seldom used and to bring about a greater repetition of new words. Silent reading will thus be greatly facilitated for the child.—*M. R. Lambercier* (Geneva).

4990. Robinson, W. A. North Carolina rating of negro colleges since 1923. *Opportunity*, 1929, 7, 21-22.—The State Department of Education of North Carolina rates colleges by objective tests. In 1923, 5 negro colleges were rated in Class A, 9 in Class B, 6 in Class C and 5 in Class D. 22 negro colleges in 1928 rated in Class A, 6 in Class B, 6 in Class C and 6 in Class D.—(Courtesy *Social Science Abstracts*).

4991. Sammartino, P., & Krause, C. A. *Standard French test.* Bloomington: Pub. School Publ. Co., 1929. \$1.50 (pkg. of 25 each of Parts I and II).—Covers vocabulary, grammar and comprehension. Direction sheet included. Each part takes about thirty minutes to administer. Norms in process of determination.—*D. Shakow* (Worcester State Hospital).

4992. Sangren, P. V., & Marburger, W. G. *Michigan instructional tests in physics.* Bloomington: Pub. School Publ. Co., 1929. \$0.60 (sample set).—This set consists of an initial test, 22 instructional tests, and a final examination. The initial test "has for its purpose the determination of the fitness of the student to pursue the course in high school physics"; the instructional tests cover fairly completely different phases of high school physics and are used for making continual checks on achievement during the process of instruction; the final examina-

tion is "applied at the end of the semester or year, for the purpose of obtaining a final measurement of the quality of the student's work." Manual of instructions, answer sheet and class record sheet accompany the set. The test is based on work with approximately 800 physics students.—*D. Shakow* (Worcester State Hospital).

4993. Schulz, P. *Psychologische Grundbegriffe in ihrer Bedeutung für den Unterricht und für die Erziehung*. (Psychological fundamental concepts with reference to their significance for education and instruction.) Berlin: Union, Zweigniederl., 1929. Pp. 178. M. 5.60.—The book is a product of the author's teaching experience in occupational therapy and aims to extend the psychological knowledge of teachers in all school branches. Schulz has divided his material into four main parts: (1) unity of mental life; (2) groundwork of experience; (3) elaboration of mental content; (4) character training. The work stresses the clear comprehension of basic psychological concepts on the ground that most recent psychology has over-emphasized the unity of mental processes and thereby neglected the "craftsmanship" involved in fundamentals. The following topics are treated in detail: perception, intuition, imagery, consciousness, memory, attention, apperception, thinking, fantasy, feeling, impulse, desire, likes and dislikes, emotion, willing, character, personality, freedom of the will, education of the will. The notion of the subconscious is treated briefly, but the terminology of the so-called "psychology of the depths" is not considered. There is no bibliography; individual sources are given in footnotes.—*O. Seeling* (Berlin).

4994. Shuttleworth, F. K. *Environmental and character factors involved in scholastic success: 1926-1927 data*. *J. Educ. Psychol.*, 1929, 20, 424-433.—A battery of three tests (revisions of those previously published by the author) was given to all freshmen entering the University of Iowa in the fall of 1926. Part I sought information concerning personal characteristics, activities and background, and Part II concerning comparative and general scholastic standing in high school courses. Part III was a test of attitudes and interests. The composite blank predicts first semester grades to a degree comparable with that of the four entrance examinations used at the university. "The partial correlations demonstrate that it is measuring substantial independent factors." Separate scores from the three parts give fair correlations with grade points. Parts I and II yield comparatively low and Part III comparatively high correlations with composite entrance examinations. The correlations of certain analytical scores are also presented.—*J. A. McGeoch* (Arkansas).

4995. Speich, R. *Einführung in die heilpädagogische Psychologie*. (A presentation in the psychology of remedial pedagogics.) *Psychol. Rundschau*, 1929, 1, 197-201.—An elaboration of the author's attempt in his previous article to analyze the close interrelationship between the self estimate and the social estimate. He cites cases and diagnoses them, tracing developmental procedure as affected by this interaction. Compensatory attitudes arising divert natural reaction toward others into use of them as instruments to serve self needs. The author sees in this phenomenon the opposing sym-

ptoms frequently apparent in problem cases. Fear of others and a defence courage often accompany one another. All the concepts involved, the self estimate, the social estimate, compensatory reactions, use of others for self needs, need much better differentiation and elaboration. The individual may not be sensed as a self acting in one direction only.—*A. B. Herrig* (Central State Teachers College).

4996. Thompson, H. *Vocational training for girls*. *Amer. Ann. Deaf.*, 1928, 393-419.—This article is the report of a special committee appointed at the Convention of American Instructors of the Deaf at Columbus to make a study of vocational training for girls in schools for the deaf of America. The findings are based upon the 82 replies received from 142 questionnaires sent to all schools for the deaf known to offer vocational subjects. Under recommendations are stressed the need for greater leadership in vocational training, the necessity of training in home economics and the need for further investigation of the opportunities and problems of the deaf in their communities in order to plan effective vocational guidance and training. The report concludes with a list of occupations found to be available for the deaf girl.—(Courtesy *Social Science Abstracts*).

4997. [Various.] *Sixth annual nation-wide testing program*. Bloomington: Pub. School Publ. Co., 1929.—Details for conducting the sixth annual nation-wide testing program are discussed in a circular which comes with the sample tests to be used in the projects. Project I: Pressey diagnostic reading tests, vocabulary and paragraph meaning, Grades 3-9. Pressey diagnostic reading test, speed, grades 3-9. Pressey diagnostic reading test, vocabulary, Grades 1A-3A. Project II: Williams reading test, Grades 3-9. Williams primary reading test. Project III: Detroit mechanical aptitudes examination for boys. Detroit mechanical aptitudes examination for girls. Directions, scoring sheets and record sheets with each of the tests.—*D. Shakow* (Worcester State Hospital).

4998. Wallin, J. E. W. *A brief survey of special education in the public schools of Baltimore*. Baltimore: Department of Education, 1929. Pp. 57.—Study of accommodations, organization, and training of special class teachers. Findings concerning the sex and race ratios in classes for the mentally handicapped show many more boys and many less negroes, the IQ average being 14 points lower for negroes found in these classes. The pupil material assigned here varies in IQ from 90 to 21, and the excluded children show much the same variation with the additional fact that some of the pupils excluded are very young. Attendance in the special classes was as regular as in the normal. The deaf and hard-of-hearing are in the same classes. Recommendations are made.—*E. B. Heim* (Price, Utah).

4999. Ward, H. H. *Vocational training in Canada*. *Amer. Federationist*, 1929, 36, 201-207.—(Courtesy *Social Science Abstracts*).

5000. Wilm, E. C. *The college and Main street*. *Nation*, 1929, 129, 380-382.—The author suggests methods of dealing with the problems which colleges have to meet because of inferior types of students

and instructors, and with the elective and lecture systems.—*M. Goodrie* (Clark).

5001. Woodruff, R. J. Every day problems in junior employment work. *Amer. Federationist*, 1929, 36, 316-320.—The vocational guidance and placement, maintained in Philadelphia as a part of the services of the public schools, are carried on in six local offices which issue employment certificates and find work for young people under 21 years of age. Reports from teachers, psychiatrists and physicians assist the counsellors in their appraisals of the applicants for positions. The customary program of registration of openings, field investigations of places of employment and surveys of success or failure of children placed is carried out by officials of this school service.—(Courtesy *Social Science Abstracts*).

[See also abstracts 4740, 4743, 4896, 4904, 4924, 4945, 4954, 4959.]

BIOMETRY AND STATISTICS

5002. Douglass, H. R. A note on the correctness of certain error formulas. *J. Educ. Psychol.*, 1929, 20, 434-437.—A comparison of the formulas of Shen and of Holzinger and Clayton for the standard error of a coefficient of correlation estimated by means of the Spearman-Brown formula. It is concluded that the Holzinger-Clayton formula will not yield as accurate values as will the Shen formula. A third formula is presented which has advantages over the two others.—*J. A. McGeoch* (Arkansas).

5003. Ezekiel, M., & Ingraham, M. H. The application of the theory of error to multiple and curvilinear correlations (with discussion). *Proc. Amer. Statis. Asso.*, 1929, 24, 99-107.—Coefficients of multiple correlation, when derived for m variables from a sample of n observations should be corrected by the formula $R^2 = 1 - (1 - R^2)/(1 - m/n)$. Experiments with samples drawn from a known universe illustrate the tendency of the observed correlation to be too high if this correction is not made. Regression coefficients, even when based on samples of 50 to 100 cases, may vary widely from sample to sample. The reliability of partial regressions differs between different variables in the same multiple correlation. In studies of milk production, regression coefficients were 25 times their standard errors for some variables, and only $1\frac{1}{2}$ times for others. The usual error formula applies only to universes satisfying the assumptions of simple sampling. For economic series which do not meet these assumptions, it may be assumed that the computed errors indicate the probable maximum reliability of the results, even if not the minimum unreliability. Ingraham's discussion agrees with the correction to R , but questions the importance of individual regression coefficients and the emphasis on their reliability. He agrees with the practical application of computed errors as indicating maximum reliability of time series, but suggests the possibility of some situations where the results would be more accurate than thus indicated.—(Courtesy *Social Science Abstracts*).

5004. Fisher, R. A. Biometry. *Encyc. Brit.* (14th ed.), 1929, 3, 618-620.—*C. H. Graham* (Clark).

5005. Harris, J. A. An alternative method of determining correlation coefficients from correlation surfaces. *Amer. Nat.*, 1929, 63, 181-185.—The formula for the correlation coefficient involved in the standard deviation of the differences of the two variables affords a simplified method of computing coefficients directly from the correlation surfaces. This method was presented by the author in *Biometrika*, 7, 214-218. A further simplification is possible when the frequency distributions of the differences between the two variables is not required. Among the advantages of this new method is that it facilitates the computation of the correlation coefficient between either variable and the sum or difference of the two variables.—(Courtesy *Social Science Abstracts*).

5006. Juvancz, I. A variatiosorok mellékcsúcsairól. (The secondary modes of frequency series.) *Psychol. Stud.* (Ranschburg-Festschrift), 1929, 146-151.—Whether the secondary modes of a series are real or merely apparent modes can be discovered by an equalization which smooths out the irregularities but does not disturb the characteristic form of the series, or at least permits that an unavoidable deformation be corrected. When a series appears to be similar in form to a normal distribution curve, the logarithms of the frequencies must be equalized. By this technique it can be shown whether a series is really bimodal or not.—*D. E. Johanssen* (Wellesley).

5007. May, M. A. A method for correcting coefficients of correlations for heterogeneity in the data. *J. Educ. Psychol.*, 1929, 20, 417-423.—The heterogeneity for which correction is sought is that resulting from variations in population selections. A general analysis of heterogeneity and of its effects upon correlations is given, together with the methods available for controlling it. May proposes a method which is simpler and makes fewer assumptions than the current techniques. It is given in the formula for finding the correlation between two variables when the deviations are taken from the means of the homogeneous sub-groups rather than from the mean of the entire population. The derivation of the formula is given and its advantages are discussed.—*J. A. McGeoch* (Arkansas).

[See also abstract 4701.]

MENTAL TESTS

5008. Fischler, D., & Ullert, I. Contribution à l'étude des tests de mémoire immédiate. (A contribution to the study of tests for immediate memory.) *Arch. de psychol.*, 1929, 21, 293-306.—This article deals with work on five individual tests: memory for reproduction of a series of 30 words, for reproduction of a series of 30 pictures, for numbers, for phrases (syllables), and for recognition of 9 geometric forms included in a group of 25 (Bernstein). The work was performed on 450 Geneva public school children from 7 to 14 years of age and on 80 adults of both sexes. The results are condensed into quartile tables. Memory for figures and for forms gave hardly any variation with age, though there were some rather wide individual differences within a given test. Therefore, the test for numbers (read at a speed of one number every two

seconds) cannot determine development, contrary to what should be supposed from its inclusion in the Binet-Simon scale and its revisions. In the test for recognition of forms, it was the false recognitions which particularly brought out individual differences. The other three tests, however, were good for determining age and aptitudes, since they introduced, in addition to immediate memory, an intellectual element which itself increased with age. The two sexes showed no great differences. The correlations between the different tests gave negative or positive coefficients (Pearson), both slight and disparate (from -0.38 to $+0.47$), leading the author to conclude that it is impossible to judge a person's memory by means of one or two tests.—*M. R. Lambercier* (Geneva).

5009. Gamsa, M., & Salkind, A. Contribution à l'étude de quelques tests d'attention. (A contribution to the study of certain attention tests.) *Arch. de psychol.*, 1929, 21, 307-319.—Five tests were given to 90 girls, 9, 12, and 15 years of age, and to 50 women students. The Rybakoff test (I), given only to adults, consists of points of color to be counted. It showed considerable variability. Schultze's number square test, which consists of numbers from 11 to 59 whose natural order is to be found, was found to be good for determining both age and aptitude. The adult gain over that of the 9-year-old child was 16%, the greatest gain found in the five tests studied. The test for cancellation of symbols (Piéron) brought out individual differences very well, as regards both speed (the number of symbols cancelled) and quality of work (mistakes and omissions scored). However, the quality increased very little with age, the gain for the adult over the child of 9 being only 8%, while the quantity increased considerably (a gain of 91%) from 12 years to the adult age. Quite often rapidity of work went along with good quality, and slowness with poor quality. The Rossolimo test, consisting of holes to be pierced according to a certain pattern, was found to be particularly a test for determining aptitude, and the same thing can be said of the Rybakoff test (II) which consists of a mixture of squares and crosses to be counted. The authors give a quartile table for each test. Relative gains were irregular from one age to another and from one test to another. The correlations (Spearman) between different tests, calculated for adults, were all positive and relatively slight (0.09 to 0.37).—*M. R. Lambercier* (Geneva).

5010. Garrett, H. E. Differential psychology. *Encyc. Brit.* (14th ed.), 1929, 7, 367-368.—Definitions and problems.—*C. H. Graham* (Clark).

5011. Juhász, A. A psychotechnika válsága. (The crisis in psychotechnics.) *Psychol. Stud.* (Ranschburg-Festschrift), 1929, 140-145.—The author points out that the old idea of investigating personalities in "parts" and then summing the "parts" must be discarded, for such a method does not give a true picture of personality, which he conceives of as a kind of mental *Gestalt*, in which each "part" has an influence on the "whole." He believes that if the test technique is properly applied and interpreted we have here a powerful instrument

for the investigation of the total capacity of the individual.—*D. E. Johannsen* (Wellesley).

5012. Kent, G., & Rosanoff, A. J. Free association test forms. New York: Wiley, 1929. \$1.00 per package of 25.—*R. R. Willoughby* (Clark).

5013. Meili, R. Über einige Schwierigkeiten bei Intelligenzprüfungen. (Concerning certain difficulties encountered in intelligence testing.) *Psychol. Rundschau*, 1929, 1, 174-179.—The author in a previous contribution *Psychol. Rundschau*, Vol. I, No. 2) has presented methods of intelligence testing. In this article he meets some of the current criticisms of the whole problem of testing. He shows that the criticism frequently heard, that under a test a child is under an unnatural emotional strain, is one to which little credence need be given. It is to be remembered that the trained tester attacks his problem not as a judge but as a discoverer of the child's ability, under which attitude the child's co-operation is easily secured, and nervousness disappears. It should also be sensed by critics of the procedure that an examiner takes cognizance of evidences of restlessness in his interpretation of the results of a test. The tester recognizes that intelligence is not a one-dimensional feature. In addition to a quantitative measure, he looks for qualitative variations. The descriptive analysis of the child's accomplishment has great prognostic value. Further types of tests are needed that offer better opportunity for this judgment of a qualitative nature.—*A. B. Herrig* (Central State Teachers College).

5014. Odom, C. L. A study of the mental growth curve with special reference to the results of group intelligence tests. *J. Educ. Psychol.*, 1929, 20, 401-416.—Thurstone's scaling method has been applied to scores on four intelligence tests: Dearborn Scale, Series I and II; Otis Group Scale, Primary and Advanced; Illinois Group Scale; and N.I.T., Scale A. In all, 87,486 cases were tested. The mental growth curves are, in general, negatively accelerated, although occasionally curves with zero or with positive acceleration may appear. In the case of every scale studied, absolute variability increases as C.A. increases. "The ability of children to score on group intelligence tests does not stop growing before the age of seventeen and very likely not until a later age." Conclusions are illustrated by numerical data and by graphs.—*J. A. McGeoch* (Arkansas).

5015. Thorndike, E. L. Intelligence tests. *Encyc. Brit.* (14th ed.), 1929, 12, 460-461.—Sample test, the IQ, systems in use, historical development.—*C. H. Graham* (Clark).

5016. Yepsen, L. N. The reliability of the Goodenough drawing test with feeble-minded subjects. *J. Educ. Psychol.*, 1929, 20, 448-451.—Goodenough's test for the measurement of intelligence by drawings was given three times, with four days between each administration, to 37 feeble-minded boys between ages 9.0 and 18.2. The reliability coefficients range from 0.89 to 0.91. It is stated that one may expect approximately 50% of the cases to remain the same, 25% to lose, and 25% to gain, while variability will rarely exceed one year. Binet and Goodenough test ages correlate 0.60.—*J. A. McGeoch* (Arkansas).

[See also abstracts 4902, 4977.]

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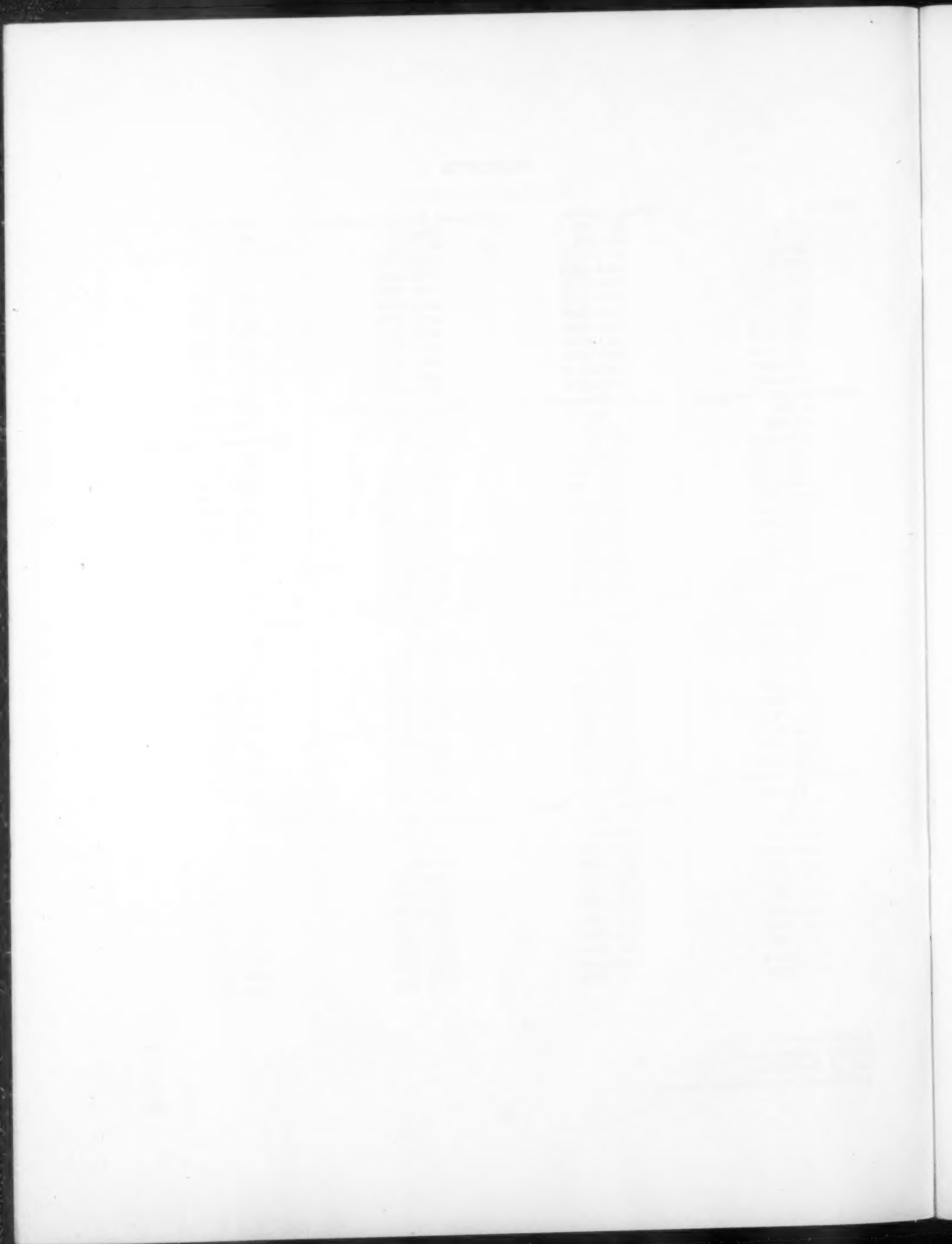
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DIRECTORY OF PERIODICALS

The following list includes only those journals, represented in Volume III of the Abstracts, for which information is available beyond the mere title of the journal. Supplementary lists will be published in future volumes, but the entire list will not be reprinted for some years.

- Abderhaldens Handb. d. biol. Arbeit.*, Abt. VI. Abderhaldens Handbuch der biologischen Arbeitsmethoden. Abt. VI. Methoden der experimentellen Psychologie. (Ed) Abderhalden, E., Physiologische Institute der Universität, Halle a/Salle, Germany. (Publ) Urban & Schwarzenberg, Friedrichstr. 1056, Berlin, Germany.
- Abh. a. d. Geb. d. Psychotherap. u. med. Psychol.* Abhandlungen aus dem Gebiete der Psychotherapie und medizinischen Psychologie (Irreg.). (Ed) Moll, A., Berlin, Germany. (Publ) F. Enke, Stuttgart, Germany.
- Acta Ophth.* Acta Ophthalmologica (Irreg.). (Ed) Lundsgaard, K. K. (Publ) Levin & Munksgaard, Copenhagen, Denmark.
- Acta Oto-Laryngol.* Acta oto-laryngologica (Irreg.). (Ed) Holmgren, G. (Publ) P. A. Norstedt, Stockholm, Sweden.
- Acta Philol. Scandinavica* Acta philologica Scandinavica (Q.). (Ed) Brøndum-Nielsen, J. (Publ) Levin & Munksgaard, Copenhagen, Denmark.
- Acta psychiat. et neur.* Acta psychiatrica et neurologica. (Ed) Brouwer, B. (& others). (Publ) Levin & Munksgaard, Nørregade, 6, Copenhagen, Denmark.
- Aera* Aera (Mo.). (Ed) Colton, J. W. (Publ) American Electric Railway Asso., 292 Madison Ave., New York City.
- Africa* Africa: Journal of the International Institute of African language and culture (Q.). (Ed) Westermann, D. (Publ) Oxford Univ. Press, London, England.
- Akad. gemeinsch. Wiss. z. Erfurt.* Akademie gemeinschaftliche Wissenschaft zu Erfurt. Abt. z. Erziehungswissenschaft und Jugendkunde. (Publ) Stenger, Erfurt, Germany.
- Akad. Wiss. Wien Math. Naturw. Kl. Anzeiger* Anzeiger der Akademie der Wissenschaften. Mathematisch-naturwissenschaftliche Klasse (Irreg.). (Publ) Hölder-Pichler-Tempsky, Wien IV, Austria.
- Allg. ärzt. Zsch. f. Psychotherap. u. psych. Hygiene* Allgemeine ärztliche Zeitschrift für Psychotherapie und psychische Hygiene (Mo.). (Ed) Sommer, R., Frankfurterstr. 97, Giessen, Germany. (Publ) S. Hirzel, Leipzig, Germany.
- Allg. evang. Luth. Kirchenzeit.* Allgemeine Evangelisch-Lutherische Kirchenzeitung (W.). (Ed) Laible, W., Liebigstr. 2, Leipzig C 1, Germany. (Publ) Dörfling & Franke, Königstr. 13, Leipzig, C 1, Germany.
- Amer. Anat. Mem.* American anatomical memoirs. (Publ) Wistar Institute, 36th St. & Woodland Ave., Philadelphia, Pa.
- Amer. Anthropol.* American anthropologist (Q.). (Ed) Lowie, R. H. (Publ) Amer. Anthropological Asso., Smithsonian Inst., Washington, D. C.
- Amer. Child* American child (Mo.). (Ed) Benedict, A. E. (Publ) National Child Labor Committee, Inc., Room 1701, 215 Fourth Ave., New York City.
- Amer. City* The American city (Mo.). (Ed) Buttenheim, H. S. (Publ) American City Magazine Corp., 443 Fourth Ave., New York City.
- Amer. Fed.* American federalist (Mo.). (Ed) Green, W. (Publ) American Federation of Labor, Ninth St. & Massachusetts Ave., N.E., Washington, D. C.
- Amer. Hist. Rev.* American historical review (Q.). (Ed) Jameson, H. F. (Publ) The Macmillan Co., 60 Fifth Ave., New York City.
- Amer. J. Dis. Child.* American journal of the diseases of children (Mo.). (Ed) Greelee, C. (& others). (Publ) American Medical Asso., 535 North Dearborn St., Chicago, Ill.
- Amer. J. Med. Sci.* American journal of medical science (Mo.). (Publ) Lea & Febiger, 600 Washington Sq., Philadelphia, Pa.
- Amer. J. Ophth.* American journal of ophthalmology. (Ed) Jackson, E., Denver, Colorado. (Publ) Ophthalmic Publishing Co., 7 West Madison St., Chicago, Ill.
- Amer. J. Physiol.* American journal of physiology. (Ed) Hooker, D. E., 19 West Chase St., Baltimore, Md.
- Amer. J. Psychiat.* American journal of psychiatry (Q.). (Ed) Brush, E. N. (Publ) Johns Hopkins Press, Baltimore, Md.
- Amer. J. Psychol.* American journal of psychology (Q.). (Ed) Dallenbach, K. M., Washburn, M. F., Bentley, M., & Boring, E. G. (Publ) The American Journal of Psychology, Morrill Hall, Cornell University, Ithaca, N. Y.
- Amer. J. Sociol.* American journal of sociology (Bimo.). (Ed) Faria, E., Fayerweather Hall, Columbia Univ., New York City. (Publ) Univ. of Chicago Press, Chicago, Ill.
- Amer. Mercury* The American mercury (Mo.). (Ed) Mencken, H. L. (Publ) American Mercury Inc., 730 Fifth Ave., New York City.
- Amer. Natur.* The American naturalist (Bimo.). (Ed. & Publ) Science Press, Grand Central Terminal, New York City.
- Amer. Phys. Educ. Rev.* American physical education review (Mo. exc. July & Aug.). (Ed) McCurdy, J. H. (Publ) American Physical Education Asso., Springfield, Mass.
- Anal. d. Instit. d. Neur.* Anales del Instituto de Neurologia. (Ed) Acevedo, E., Biblioteca de Maestros, Plaza Cagancha, Montevideo (Uruguay), América del Sur.
- Anal. d. l. Sec. d. Orient. Profes. d. l. Esc. d. Trab.* Anales de la Sección de Orientación Profesional de la Escuela del Trabajo. (Publ) Urgel, 187, Barcelona, Spain.
- Anat. Rec.* The anatomical record (Mo.). (Ed) Boyden, E. A., Univ. of Illinois, Urbana, Ill. (Publ) Wistar Institute of Anatomy and Biology, 36th St. & Woodland Ave., Philadelphia, Pa.
- Anglican Theol. Rev.* Anglican theological review (Q.). (Publ) Anglican Theological Review, Chelsea Square, New York City.
- Ann. Amer. Acad. Pol. & Soc. Sci.* Annals of the American Academy of Political and Social Science (Bimo.). (Ed) Sellin, T. (Publ) American Academy of Political and Social Science, 622-24 Locust St., Philadelphia, Pa.
- Ann. anat. path. méd.-chir.* Annales d'anatomie pathologique médico-chirurgicale (9 issues annually). (Publ) 120, Boul. St-Germain, Paris, France.
- Ann. de l'enfance* Annales de l'enfance (10 issues annually). (Ed) Jeudon, R., 132, Avenue d'Orléans, Paris, XIV, France.
- Ann. méd.-psychol.* Annales médico-psychologiques (Irreg.). (Ed) Collin, H., Asile Clinique de Ste-Anne, Paris, France. (Publ) Masson et Cie, 120, Boul. St-Germain, Paris, France.
- Ann. d'ocul.* Annales d'oculistique (Mo.). (Ed) Morax, V., 26, Boul. Raspail, Paris, VII, France. (Publ) G. Doin, 8, Place de l'Odéon, Paris VI, France.
- Ann. dell' Osped. Psychiat. di Messina* Annali dell' ospedale psichiatrico di Messina. (Publ) Ospedale psichiatrico di Messina, Messina, Italy.
- Ann. d. Phil.* Annalen der Philosophie (Irreg.). (Ed) Schmidt, R., Fichtestr. 13, Leipzig, Germany. (Publ) F. Meiner, Leipzig, Germany.
- Ann. rep. Smithsonian Instit.* Annual report of the Smithsonian Institution (Ann.). (Publ) Smithsonian Institution, Washington, D. C.
- Ann. des sci. nat.* Annales des sciences naturelles (zoologie) (Irreg.). (Ed) Bouvier, 63, rue de Buffon, Paris, France. (Publ) Masson & Cie, 120, Boul. St-Germain, Paris, France.
- Année psychol.* L'Année psychologique (An). (Ed) Piéron, H., Laboratoire de Psychologie Physiologique de la Sorbonne, Paris, France. (Publ) F. Alcan, 108, Boul. St-Germain, Paris, France.
- Arch. di antrop.* Archivi di antropologia criminale, psichiatria, e medicina legale (Bimo.). (Ed) Carrara, M., Corso Peschiera, 16, Torino, Italy. (Publ) Fratelli Bocca, Torino, Italy.
- Arch. f. Augenhk.* Archiv für Augenheilkunde (Irreg.). (Ed) Hess, C., Universitäts-Augenklinik, München, Germany. (Publ) J. F. Bergmann, München, Germany.
- Arch. fasc. d. Med. pol.* Archivio fascista di Medicina politica. (Publ) Clinica medica (Ospedale Maggiore), Parma, Italy.
- Arch. gen. neur. psychiat. e psicoanal.* Archivio generale di neurologia, psichiatria e psicoanalisti (Q.). (Ed) Bianchini, Manicomio, Ceramo, Italy.
- Arch. f. d. ges. Psychol.* Archiv für die gesamte Psychologie (Irreg.). (Ed) Wirth, W., Haydnstr. 6/III, Leipzig, Germany. (Publ) G. Fock, Leipzig, Germany.
- Arch. ital. di psico.* Archivio italiano di psicologia (Irreg.). (Ed) Klesow, F., Via Po, 18, Torino, Italy. (Publ)

- Laboratorio di psicologia sperimentale dell' Università, Torino, Italy.
- Arch. f. Krimin.* Archiv für Kriminologie (Irreg.). (Ed) Heindl, R., Virkl. Legationsrat, Berlin, Germany. (Publ) F. E. W. Vogel, Leipzig, Germany.
- Arch. néerl. de physiol.* Archives néerlandaises de physiologie de l'homme et des animaux (Q.). (Ed) Van Rynberk, G., Laboratoire de Physiologie, Rapenburgerstraat 136, Amsterdam, Holland. (Publ) Martinus Nijhoff, La Haye, Holland.
- Arch. Neur. & Psychiat.* Archives of neurology and psychiatry (Mo.). (Ed) Weisenburg, T. H., 1909 Chestnut St., Philadelphia, Pa. (Publ) American Medical Association, 535 North Dearborn St., Chicago, Ill.
- Arch. de neurobiol.* Archivos de neurobiología. (Publ) Madrid, Spain.
- Arch. f. Ohrenh.* Archiv für Ohren-, Nasen- und Kehlkopfkrankheiten sowie die angrenzenden Gebiete (Irreg.). (Ed) Denker, A., Universität, Halle a/S., Germany. (Publ) C. W. Vogel, Leipzig, Germany.
- Arch. Ophth.* Archives of ophthalmology (Bimo). (Ed) Knapp, A., 10 East 54th St., New York City. (Publ) G. P. Putnam's Sons, 2 West 45th St., New York City.
- Arch. f. Psychiat. u. Nervenkr.* Archiv für Psychiatrie und Nervenkrankheiten (Irreg.). (Ed) Siemerling, E., Nelmannsweg 147, Kiel, Germany. (Publ) J. Springer, Berlin W. 9, Germany.
- Arch. f. Religionspsychol. u. Seelenführung* Archiv für Religionspsychologie und Seelenführung (Irreg.). (Ed) Gruhn, W., Dorpat, Germany. (Publ) E. Pfeiffer, Kantstr. 75, Leipzig, Germany.
- Arch. de psychol.* Archives de psychologie (Irreg.). (Ed) Ed. Claparède, Université de Genève, Geneva, Switzerland. (Publ) Librairie Kundig, Geneva, Switzerland.
- Arch. of Psychol.* Archives of psychology (Irreg.). (Ed) Woodworth, R. S., Columbia Univ., New York City. (Publ) Archives of Psychology, Substation 84, New York City.
- Arch. f. Rassen- u. Gesellsch.-biol.* Archiv für Rassen- und Gesellschaftsbiologie (Irreg.). (Ed) Lenz, J., Herrsching bei München, Germany. (Publ) J. F. Lehmann's Verlag, München, Germany.
- Arbeitschule* Die Arbeitsschule (Mo.). (Ed) Scheibner, O., Jena, Germany. (Publ) Quelle & Meyer, Leipzig, Germany.
- Ark. f. psykol. o. ped.* Arkiv för psykologi och pedagogik. (Ed) Hammer, B., & Herrlin, H. (Publ) Almqvist & Wiksell, Uppsala, Sweden.
- Asiatic Rev.* The Asiatic review (Q.). (Publ) Woking, London, England.
- Assistenza soc.* Assistenza sociale.
- Astrophys. J.* The astrophysical journal (Mo exc. Feb. & Aug.). (Ed) Hale, G. E., Ryerson Lab., Univ. of Chicago, Chicago, Ill. (Publ) Univ. of Chicago Press, Chicago, Ill.
- Atl. Mo.* The Atlantic monthly (Mo.). (Ed) 8 Arlington St., Boston, Mass. (Publ) Atlantic Monthly Co., Rumford Bldg., Concord, N. H.
- Aust. Manual & Newspaper Directory* Australian Manual and Newspaper Directory. (Discontinued.)
- Beitr. Fortpflanzungsbiol.* Vogel Beiträge zur Fortpflanzungsbiologie der Vögel.
- Beitr. z. problems-geschichte d. Psychol.* Beiträge zur Problems-geschichte der Psychologie.
- Bibliographica Eugenia*, see *Eug. News*
- Bijdragen tot de Taal-Land-en Volken.* Bijdragen tot de Taal-Land-en Volkenkunde van Nederlandsch-Indië. (Publ) The Hague, Holland.
- Biometrika* Biometrika (4 issues annually). (Ed) Pearson, K., University College, London, England. (Publ) University Press, Cambridge, England.
- Biol. Zentbl.* Biologisches Zentralblatt (Irreg.). (Ed) Correns, C. (& others), Universität, Berlin, Germany. (Publ) G. Thieme, Leipzig, Germany.
- Bird-Lore* Bird-Lore (Bimo). (Ed) Chapman, F. C. (Publ) D. Appleton & Co., Crescent & Mulberry Sts., Harrisburg, Pa.
- Blät. f. Anstalts-Päd.* Blätter für Anstalts-Pädagogik (Bimo). (Ed) Radlmaier, L., Neuburg a.D., Germany. (Publ) Buchh. Ludwig Auer, Donauwörth, Germany.
- Blät. f. deutsche Phil.* Blätter für Deutsche Philosophie (Q.). (Ed) Fischer, H., Braustr. 5/III, Leipzig, Germany.
- Blät. f. Heilz.* Blätter für Heilerziehung (6 mo.). (Ed) Eyferth, H., Jena-Sophienhöhe, Germany. (Publ) C. Marhold, Halle a/S., Germany.
- Bolet. de Crim.* Boletín de Criminología. (Ed) Leon y Leon, B., Lima, Peru.
- Bolet. d. Instit. Psiquiat.* Boletín del Instituto Psiquiátrico. (Publ) Institute of Psychiatry, Rosario, Argentina.
- Brit. Asso. Adv. Sci.* British Association for the advancement of science. (Publ) London, England.
- Brit. J. Med. Psychol.* British journal of medical psychology (Q.). (Ed) Mitchell, T. W., Hadlow, Kent, England. (Publ) Cambridge Univ. Press, Fetter Lane, London E. C. 4, England, and Univ. of Chicago Press, Chicago, Ill., U. S. A.
- Brit. J. Ophth.* British journal of ophthalmology (Mo.). (Ed) Henderson, E. E. (Publ) George Putman & Sons, 24 Thayer St., Marylebone W 1, London, England.
- Brit. J. Psychol.* British journal of psychology (Q.). (Ed) Bartlett, F. C., Cambridge University, Cambridge, England. (Publ) Cambridge Univ. Press, Fetter Lane, London E. C. 4, England, and Univ. of Chicago Press, Chicago, Ill., U. S. A.
- Brit. J. Surgery* British journal of surgery (Q.). (Publ) John Wright & Sons, Ltd., Bristol, England.
- Bull. Asso. Med. Coll.* see *J. Asso. Amer. Med. Coll.*
- Bull. Bibliog.* Bulletin of bibliography. (3 issues annually). (Ed) Faxon, F. W. (Publ) F. W. Faxon Co., 83 Francis St., Boston, Mass.
- Bull. biol. Fr. et Belg.* Bulletin biologique de la France et de la Belgique (Q.). (Publ) Laboratoire d'évolution des êtres organisés, 105, Boul. Raspail, Paris, France.
- Bull. instit. gen. psychol.* Bulletin de l'institut général psychologique (Bimo). (Ed) Courtier, J., 143, Boul. St. Michel, Paris, France. (Publ) Institut général psychologique, 143, Boul. St. Michel, Paris, France.
- Bull. et mém. Soc. d'anthrop.* Bulletin et mémoires de la Société d'anthropologie (Irreg.). (Ed) Société d'anthropologie, 15, rue de l'école de Médecine, Paris, France. (Publ) Masson & Cie, 120, Boul. St.-Germain, Paris, France.
- Bull. et mém. Soc. méd. hôp.* Bulletin et mémoires de la Société médicale des hôpitaux de Paris (W.). (Publ) Masson & Cie, 120, Boul. St.-Germain, Paris, France.
- Bull. mus.* Bulletin de muséum (Mo. exc. Aug. & Sept.). (Ed) Muséum d'Histoire Naturelle, rue Cuvier, Paris, France.
- Bull. Nat. Res. Council* Bulletin of the National Research Council (Irreg.). Publication Office, National Research Council, Washington, D. C.
- Bull. Purdue Univ.: Stud. in Higher Educ.* Bulletin of Purdue University: Studies in higher education. (Publ) Purdue Univ., Lafayette, Ind.
- Bull. Soc. Binet* Bulletin de la Société Alfred Binet (Mo. exc. Aug. & Sept.). (Ed) Société Alfred Binet, 36, rue Grange aux Belles, Paris, France.
- Bull. Soc. clin. méd. ment.* Bulletin de la Société de clinique et de médecine mentale (Mo. exc. Aug. & Sept.). (Ed) Collin, H. (Publ) G. Doin, 8, Place de l'Odéon, Paris, France.
- Bull. Soc. entom. Fr.* Bulletin de la Société entomologique de France (Fortn. exc. Aug. & Sept.). (Ed) Société entomologique, 28, rue Serpente, Paris, France.
- Bull. Soc. d'étude des formes humaines* Bulletin de la Société d'études des formes humaines. (Publ) Paris, France.
- Bull. Soc. de pédi. de Paris* Bulletin de la Société de pédiatrie de Paris (9 issues annually). (Ed) Masson & Cie. (Publ) 120, Boul. St.-Germain, Paris, France.
- Bur. Standards J. Res.* Bureau of Standards journal of research. (Publ) Govt. Printing Office, Washington, D. C.
- C. r. Acad. Sci.* Comptes rendus hebdomadaires des séances de l'Académie des sciences (W.). (Ed) DeCamp, J. E. (Publ) Gauthier-Villars & Cie, Quai des Grands-Augustins, 55, Paris, France.
- C. r. de l'asso. fr. pour l'avance. des sci.* Comptes rendus de l'Association française pour l'avancement des sciences (Mo.). (Publ) Paris, France.
- C. r. du Syndicat nat. des instituteurs et institutrices publiques de France* Comptes rendus du Syndicat national des instituteurs et institutrices de France (Mo.). (Publ) 73, rue Notre-Dame-de-Nazareth, Paris, France.
- C. r. Soc. biol.* Comptes rendus hebdomadaires des séances et mémoires de la Société de biologie et de ses filiales, etc. (W.). (Publ) Masson & Cie, 120, Boul. St.-Germain, Paris, France.
- Calif. Mo.* California monthly (Mo. exc. July & Aug.). (Ed & Publ) California Alumni Asso., California Hall, Berkeley, Calif.
- Canadian Med. Asso. J.* Canadian Medical Association journal (Mo). (Ed) Blackader, A. D. (& others). (Publ) Canadian Medical Asso., 836 University St., Montreal, Quebec.
- Cath. Hist. Rev.* Catholic historical review (Q.). (Ed) Shahan, T. J. (Publ) Catholic Univ. of America, Washington, D. C.
- Cath. Univ. Amer., Educ. Res. Bull.* Catholic University of America, educational research bulletins. (Publ) The Catholic Education Press, Washington, D. C.
- Cath. Univ. Amer., Stud. Psychol. & Psychiat.* Catholic University of America, studies in psychology and psychiatry. (Publ) Williams & Wilkins Co., Baltimore, Md.
- Century Century* (Mo). (Ed) Howland, H. H. (Publ) Century Company, 353 Fourth Ave., New York City.

- Cerv. Cervello* (Q). (Ed) Senise T. (Publ) Corso Umberto 1, 154 Napoli, Italy.
- Child Stud.* Child Study (8 issues annually). (Publ) Child Study Assn. of America, Inc., 509 West 121 St., New York City.
- Childhood Educ.* Childhood education (Mo. exc. July & Aug.). (Ed) Crabtree, La Verne. (Publ) International Kindergarten Union, Williams & Wilkins Co., Baltimore, Md.
- Chinese J. Physiol.* Chinese journal of physiology. (Publ) Peking, China.
- Chinese Recorder* Chinese recorder. (Publ) Foochow, Shanghai, China.
- Christ. Welt* Die christliche Welt (Fortn.). (Ed) Rade, M., Roter Graben 8, Marburg (Lahn), Germany. (Publ) Leopold Klotz Verlag, Gotha, Germany.
- Christ. u. Wiss.* Christentum und Wissenschaft (Mo.). (Ed) Procksch, Ebrardstr. 15, & Elert, Banreutherstr. 32, Erlangen, Germany. (Publ) Walters, Schlestedt Post Schoppenstedt (Braunschweig), Germany.
- Christengemeinschaft* Die Christengemeinschaft (Mo.). (Ed) Rittelmeyer, F. (Publ) Urachstr. 41, Stuttgart, Germany.
- Ciencia Tomista* Ciencia tomista: Publicación bimestral de los Dominicos españoles (Bimo). (Publ) Madrid, Spain.
- Clin. Opht.* Le clinique ophtalmologique (Mo.). (Ed) Joqcs, R. (Publ) 9, rue Buffault, Paris, France.
- Columbia Law Rev.* Columbia law review (Mo. exc. July, Aug., Sept. & Oct.). (Ed & Publ) Columbia Law Review, Columbia Univ., New York City.
- Comp. Psychol. Monog.* Comparative psychology monographs (Irreg.). (Ed) Dunlap, K., Johns Hopkins Univ., Baltimore, Md. (Publ) The Johns Hopkins Press, Baltimore, Md.
- Congo Congo*: revue générale de la colonie belge. (Publ) Association pour le perfectionnement du matériel colonial, Brussels, Belgium.
- Correspondant* Correspondant (Bimo). (Ed) Trogan, F. (Publ) 31, rue St-Guillaume, Paris, France.
- Crisis Crisis* (Mo.). (Ed) Du Bois, W. F. B. (Publ) National Association for the Advancement of Colored People, 69 Fifth Ave., New York City.
- Criterion* Criterion, revista trimestral de filosofía (Q). (Ed) D'Espugues, P. M., Placa de Catalunya, 17, Barcelona, Spain.
- Dept. Int. Bur. Educ.* Department of the Interior, Bureau of Education. (Publ) Govt. Printing Office, Washington, D. C.
- Dif. soc.* Difesa sociale (Mo.). (Ed) Levi, E., V. Condetti, 33, Roma, 8, Italy. (Publ) Istituto italiano, di igiene, previdenza ed assistenza sociale, Roma, Italy.
- Discovery* Discovery (W). (Ed & Publ) Kraemer, M. J., Knights of Columbus Building, Washington, Ind.
- Dorfkirche* Die Dorfkirche (Mo.). (Ed) Von Lüpke, H., Dülsterer Elchweg 18, Göttingen, Germany. (Publ) Deutsche Landbuchh., Dessauerstr. 7, Berlin SW 11, Germany.
- Dtsch. med. Woch.* Deutsche medizinische Wochenschrift (W). (Ed) Schwalbe, J., Schlüterstr. 53, Charlottenburg, Berlin, Germany (Publ) G. Thieme, Leipzig, Germany.
- Dtsch. Psychol.* Deutsche Psychologie. (Ed) Giese, F., Technische Hochschule, Stuttgart, Germany. (Publ) C. Marhold, Halle, Germany.
- Dublin Rev.* Dublin review (Q). (Publ) London, England.
- Educ. Rec.* Educational record (Q). Mann, C. R. (Publ) American Council on Education, Washington, D. C.
- Educ. Res. Bull.* Educational research bulletin (Fortn. exc. June, July, Aug.). (Publ) Bureau of Educational Research, Ohio State Univ., Columbus, Ohio.
- Elem. School J.* Elementary school journal. (Ed) Department of Education, Chicago, Ill. (Publ) Univ. of Chicago Press, Chicago, Ill.
- Encéph.* L'encéphale: Journal de neurologie et de psychiatrie (10 issues annually). (Ed) Antheaume, A., & Claude, H. (Publ) Delarue, H., 5, rue des Grands-Augustins, Paris, France.
- English J.* English journal (Mo. exc. July & Aug.). (Ed) Hatfield, W. W. (Publ) Univ. of Chicago Press, Chicago, Ill.
- Eng. Rev.* English review. (Publ) London, England.
- Ersiehung* Die Erziehung (Mo.). (Ed) Flitner, W., Kernbergstr. 4, Jena, Germany. (Publ) Quelle & Meyer, Leipzig C 1, Germany.
- Essex Inst. Hist. Coll.* Essex Institute, historical collections. (Publ) Essex Institute, Salem, Mass.
- Ethik* Ethik: Sexual- und Gesellschaftsethik (Bimo). (Ed) Abderhalden, E., Magdeburgerstr. 21, Halle a/S., Germany. (Publ) Buchh. des Waisenhauses, Franckeplatz 1, Halle a/S., Germany.
- Ethol. J.* Ethological journal (Q). (Ed) Hollander, B., 57, Wimpole St., London W. 1, England. (Publ) Ethological Society, 57, Wimpole St., London W. 1, England.
- Eug. News* The eugenical news (Mo. with quarterly supplement, *Bibliographica Eugenia*). (Ed) Bunce, I. M., Cold Spring Harbor, Long Island, N. Y.
- Eug. Rev.* The eugenics review (Q). (Ed) 11, Lincoln's-Inn-Fields, London W. C. 2, England. (Publ) Macmillan & Co., Ltd., 10-15 St. Martin's St., London, England.
- Eugenics* Eugenics (Mo.). (Ed) Ives, C. P., 2nd, 185 Church St., New Haven, Conn. (Publ) Galton Publ. Co., 108 State St., New Haven, Conn.
- Eugenics Record Office, Bull.* Eugenics Record Office, Bulletin (Irreg.). (Publ) Eugenics Record Office, Cold Spring Harbor, Long Island, N. Y.
- Evangelisches Schulblatt* Evangelisches Schulblatt (Mo.). (Ed) Bachmann. (Publ) Evangel. Schulverein in Bayern, Luitpoldstr. 19, Erlangen, Germany.
- Factory & Indus. Management* Factory and industrial management (Mo.). (Publ) A. W. Shaw & Co., 660 Cass St., Chicago, Ill.
- Family* Family (Mo. exc. Aug. & Sept.). (Ed) Rich, M. E. (Publ) Amer. Assn. for Organizing Family Social Life, 130 East 22nd Street, New York City.
- Fels* Der Fels (Mo.). (Ed & Publ) C. M. Kaufmann, Niedenau 24 II., Frankfurt (Main), Germany.
- Foreign Affairs* Foreign Affairs (Q). (Ed) Armstrong, H. F., 25 West 43d St., New York City. (Publ) 10 Ferry St., Concord, N. H.
- Fortnightly Rev.* The fortnightly review (Fortn.). (Publ) Leonard Scott Publ. Co., 249 West 13th St., New York City.
- Forum* Forum (Mo.). (Ed) Leach, H. G., & Davison, F. C. (Publ) Forum Publ. Co., 247 Park Ave., New York City.
- Forum Educ.* The forum of education (3 issues annually). (Ed) Valentine, C. W., Univ. of Birmingham, Birmingham, England. (Publ) Longmans Green, Co., London, England.
- Frau* Die Frau (Mo.). (Ed) Lange, H., & Bäumer, G., Hansa-User 7, Berlin NW 87, Germany. (Publ) F. A. Herbig, Flottwellstr. 4, Berlin W 35, Germany.
- Frau u. Erziehung* Frau und Erziehung. (Ed) Bardenheuer, L. (& others). (Publ) F. Schöningh, Paderborn, Germany.
- Freie Volkskirche* Die freie Volkskirche (Fortn.). (Ed) Cöfar, A., Jena, Germany. (Publ) Frau Selma Donat, Steinweg 3, Jena, Germany.
- G. Peabody Coll. for Teach., Contrib. Educ.* George Peabody College for Teachers, Contributions to Education (Irreg.). (Publ) G. Peabody College for Teachers, Nashville, Tenn.
- Geisteskampf & Gegenwart.* Der Geisteskampf der Gegenwart (Mo.). (Ed) Pfennigsdorf, D., Poppelsdorfer Allee 108, Bonn, Germany. (Publ) C. Bertelsmann, Gütersloh, Germany.
- Gelbe Heft* Gelbe Heft (Mo.). (Ed & Publ) Buchner, M., Metzstr. 9, München, Germany.
- Gen. Mag. & Hist. Chron.* General magazine and historical chronicle (Q). (Ed) Lippincott, H. M. (Publ) General Alumni Society of the Univ. of Pennsylvania, Burlington, N. J.
- Genet. Psychol. Monog.* Genetic psychology monographs (Bimo). (Ed) Murchison, C., Clark Univ., Worcester, Mass. (Publ) Clark Univ. Press, Worcester, Mass.
- Genetics* Genetics: A periodical record of investigations bearing on heredity and variation (Bimo). (Ed) Shull, G. H., Princeton Univ., Princeton, N. J. (Publ) Genetics, Menasha, Wisconsin.
- Giorn. di psich. clin. e tech. manic.* Giornale di psichiatria clinica e tecnica manicomiale. (Publ) Ferrara, Italy.
- Gleanings in Bee Culture* Gleanings in bee culture (Mo.). (Ed) Root, F. R., & Demuth, G. S. (Publ) A. I. Root Co., Medina, Ohio.
- Grande Rev.* La Grande revue (Mo.). (Publ) 37, rue Constantinople, Paris, France.
- Graefes Arch. f. Opht.* Graefes Archiv für Ophthalmologie (Irreg.). (Publ) J. Springer, Linkstr. 23, Berlin W. 9, Germany.
- Grundwissenschaft* Grundwissenschaft (Q). (Ed) Hendel, J. E., Arndstr. 33, Greifswald, Germany. (Publ) F. Meiner, Leipzig C 1, Germany.
- Harpers* Harpers magazine (Mo.). (Ed) Wells, T. B. (Publ) Harper & Bros., 49 East 33d St., New York City.
- Harvard Grad. Mag.* Harvard graduate's magazine (Q). (Publ) Harvard Graduate's Magazine Assn., 321 Shawmut Bank Bldg., Boston, Mass.
- Harvard Monog. Educ.* Harvard monographs in education. (Publ) Harvard Univ. Press, Cambridge, Mass.
- Heidelberg. Abh. z. Phil. u. Geschichte* Heidelberger Ab-

- handlungen zur Philosophie und ihrer Geschichte. (Publ) Tübingen, Germany.
- Hilfsschule* Die Hilfsschule (Mo). (Ed) Henze, A. (Publ) C. Marhold, Halle a/S., Germany.
- Hist. Outlook* Historical outlook. (Mo. exc. June, July, Aug. & Sept.). (Ed) McKinley, A. E. (Publ) McKinley Publ. Co., 1021 Filbert St., Philadelphia, Pa.
- Hospital Soc. Ser.* Hospital social service (Mo). (Ed) Stillman, E. G. (Publ) Hospital Social Service Assn., 9 East 37th St., New York City.
- Human biol.* Human biology. (Ed) Pearl, R., Johns Hopkins Univ., Baltimore, Md. (Publ) Warwick & York, Baltimore, Md.
- Hygiène ment.* L'hygiène mentale (Mo. suppl. Encéph.). (Publ) H. Delarue, 5, rue des Grands-Augustins, Paris, France.
- Iberica* Iberica: Zeitschrift für spanische und portugiesische auslandskunde. (Publ) Ibero-amerikanisches Institut, Hamburg, Germany.
- Illinois Law Rev.* Illinois law review (Mo. exc. July, Aug., Sept. & Oct.). (Ed) Putthamer, E. W. (Publ) Northwestern Univ. Press, 31 West Lake St., Chicago, Ill.
- Imago* Imago: Zeitschrift für Psychoanalyse auf die Geisteswissenschaften (Irreg). (Ed) Freud, S. (Publ) Internationaler Psychoanalytischer Verlag, Leipzig, Germany.
- Indian Antiquary* Indian antiquary. (Ed) Burgess, J., Bombay, India.
- Indian J. Psychol.* Indian journal of psychology (Q). (Ed) Berkeley-Hill, O., European Mental Hospital, Ranchi, India. (Publ) Calcutta Univ. Press, Senate House, Calcutta, India.
- Indus. Fatigue Res.* Board changed to *Indus. Health Res. Board*
- Indus. Health Res. Board* Industrial Health Research Board. (Publ) H. M. Printing Office, London, England.
- Indus. Psychotechn.* Industrielle Psychotechnik: Angewandte Psychologie in Industrie-Handel-Verkehr- und Verwaltung (Mo). (Ed) Moede, W., Technische Hochschule, Berlin, Germany. (Publ) J. Springer, Berlin, Germany.
- Int. J. Eth.* The international journal of ethics (Q). (Ed) Tufts, J. H., Univ. of Chicago, Chicago, Ill. (Publ) Rumford Press, Concord, N. H.
- Int. J. Psychoanal.* The international journal of psychoanalysis (Q). (Ed) Jones, E., 111 Harley St., London, England. (Publ) Balliere, Tindall & Cox, 7-8 Henrietta St., Covent Garden, London, England.
- Int. Zsch. f. Indiv.-psychol.* Internationale Zeitschrift für Individualpsychologie (Irreg). (Ed) Adler, A. (Publ) Verlagsbuchhandlung Moritz Perles, Seilergasse 4, Wien, Austria.
- Int. Zsch. f. Psychoanal.* Internationale Zeitschrift für Psychoanalyse (Irreg). (Ed) Freud, S. (Publ) Internationaler Psychoanalytischer Verlag, Leipzig, Germany.
- Iowa State Coll. Agric., Exper. Sta., Res. Bull.* Iowa State College of Agriculture, Experimental Station Research Bulletin. (Publ) Iowa State College, Ames, Iowa.
- J. Abn. & Soc. Psychol.* The journal of abnormal and social psychology (Q). (Ed) Moore, Skidmore College, Saratoga Springs, N. Y. (Publ) Boyd Printing Co., 372-374 Broadway, Albany, N. Y.
- J. Appl. Psychol.* The journal of applied psychology (Bimo). (Ed) Porter, J. P., Ohio Univ., Athens, Ohio. (Publ) Waverly Press, Baltimore, Md.
- J. Amer. Asso. Univ. Women* Journal of the American Association of University Women (Q). (Ed) Rankin, B. (Publ) Williams & Wilkins Co., Baltimore, Md.
- J. Amer. Folk-lore* Journal of American folk-lore (Q). (Ed) Benedict, R., Columbia Univ., New York City. (Publ) G. E. Stechert, 31 East 10th St., New York City.
- J. Amer. Med. Asso.* The journal of the American Medical Association. (Ed) American Medical Association, Chicago, Ill.
- J. Amer. Statist. Asso.* Journal of the American Statistical Society (Q). (Ed) Columbia Univ., New York City. (Publ) Rumford Press, Concord, N. H.
- J. Asso. Amer. Med. Coll.* Journal of the Association of American Medical Colleges. (Publ) Chicago, Ill.
- J. Comp. Neur.* The journal of comparative neurology (Bimo). (Ed) Herrick, C. J., Univ. of Chicago, Chicago, Ill. (Publ) Wistar Institute of Anatomy & Biology, 36th St. & Woodland Ave., Philadelphia, Pa.
- J. Comp. Psychol.* The journal of comparative psychology (Bimo). (Ed) Dunlap, K., Johns Hopkins Univ., & Yerkes, M., Yale Univ. (Publ) Williams & Wilkins Co., Baltimore, Md.
- J. Crim. Law & Crimin.* Journal of the American Institute of Criminal Law and Criminology (Bimo). (Ed) Gault, R. H., Northwestern Univ., Evanston, Ill. (Publ) Northwestern Univ. Press, 31 West Lake St., Chicago, Ill.
- J. Delinq.*, see *J. Juv. Res.*
- J. Educ. Method* Journal of educational method (Mo. exc. July & Aug.). (Ed) Hosc, J. F. (Publ) National Conference on Educational Method, 525 West 120th St., New York City.
- J. Educ. Psychol.* The journal of educational psychology (Mo. exc. June, July, & Aug.). (Ed) Rugg, H. R., Teachers College, Columbia Univ., New York City. (Publ) Warwick & York, Inc., Baltimore, Md.
- J. Educ. Res.* The journal of educational research (Mo. exc. July & Aug.). (Ed) Barr, A. S., Univ. of Wisconsin, Madison, Wis. (Publ) Public School Publishing Co., Bloomington, Ill.
- J. Esper. Psychol.* The journal of experimental psychology (Bimo). (Ed) Bently, M., Cornell Univ., Ithaca, N. Y. (Publ) Psychological Review Company, Prince & Lemon Sts., Lancaster, Pa.
- J. Esper. Zool.* The journal of experimental zoology (8 issues annually). (Ed) Harrison, R. G., Yale Univ., New Haven, Conn. (Publ) Wistar Institute of Anatomy & Biology, 36th St. & Woodland Ave., Philadelphia, Pa.
- J. Franklin Instit.* Journal of the Franklin Institute (Mo). (Ed) Owens, R. B., Franklin Institute of the State of Pennsylvania, Philadelphia, Pa. (Publ) Franklin Institute of the State of Pennsylvania, Philadelphia, Pa.
- J. Gen. Physiol.* The journal of general physiology (Bimo). (Ed) Crozier, W. J., Northrop, J. H., & Osterhout, W. J. V. (Publ) Rockefeller Institute for Medical Research, Mount Royal & Guilford Aves., Baltimore, Md.
- J. Gen. Psychol.* The journal of general psychology (Q). (Ed) Murchison, C., Clark Univ., Worcester, Mass. (Publ) Clark Univ. Press, Worcester, Mass.
- J. Genet. Psychol.* The journal of genetic psychology (Q). (Ed) Murchison, C., Clark Univ., Worcester, Mass. (Publ) Clark Univ. Press, Worcester, Mass.
- J. Hered.* The journal of heredity (Mo). (Ed) Cook, R. C., Room 306, Victor Bldg., Washington, D. C. (Publ) American Genetic Association, 1918-32 Hartford Ave., Baltimore, Md.
- J. Juv. Res.* The journal of juvenile research (formerly *J. Delinq.*) (Q). (Ed) Sullivan, E., Whittier, Calif. (Publ) Calif. Bureau of Juvenile Research, Whittier, Calif.
- J. Mammal.* The journal of mammalogy (Q). (Ed) Jackson, H. H. T. (Publ) Williams & Wilkins Co., Baltimore, Md.
- J. Ment. Sci.* The journal of mental science (Q). (Ed) Lord, J. R. (Publ) J. & A. Churchill, 7, Great Marlborough St., London, England.
- J. Negro Hist.* Journal of negro history (Q). (Ed) Woodson, C. G. (Publ) Asso. for the Study of Negro Life and History, Inc., 1538 Ninth St., N. W., Washington, D. C.
- J. de neur. et de psychiat.* Journal de neurologie et de psychiatrie (Mo). (Ed) Ley, R., 10 Ave. de la Ramée, Uccle, près Bruxelles, Belgium. (Publ) J. Vromans, 45, rue Sans-Souci, Bruxelles, Belgium.
- J. Nerv. & Ment. Dis.* The journal of nervous and mental disease (Mo). (Ed) Spiller, W. G. (Publ) Nervous & Mental Disease Publ. Co., New York City.
- J. Opt. Soc. Amer.* Journal of the Optical Society of America and Review of scientific instruments (Mo). (Ed) Foote, P. D., Bureau of Standards, Washington, D. C. (Publ) Optical Society of America, Menasha, Wis.
- J. Person. Res.*, see *Person. J.*
- J. Phil.* The journal of philosophy (Fortn). (Ed) Woodbridge, F. J. E., Columbia Univ., New York City. (Publ) Journal of Philosophy, 515 West 116th St., New York City.
- J. de psychol.* Journal de psychologie (Mo exc. Aug. & Sept.). (Ed) Janet, P., & Dumas, G. (Publ) F. Alcan, 108, Boul. St-Germain, Paris, France.
- J. f. Psychol. u. Neur.* Journal für Psychologie und Neurologie. (Ed) Vogt, O., Magdeburger St., 16, Berlin, Germany. (Publ) J. A. Barth, Leipzig, Germany.
- J. Roy. Anthropol. Instit.* The journal of the Royal Anthropological Institute of Great Britain & Ireland (Irreg). (Publ) Roy. Anthropol. Instit. of Great Britain & Ireland, 50, Great Russell St., London W. C. 1, England.
- J. Roy. Statist. Soc.* Journal of the Royal Statistical Society (Q). (Publ) Royal Statistical Society, 9, Adelphi Terrace, London W. C. 2, England.
- J. Soc. Hygiene* Journal of social hygiene (Q). (Ed) American Social Hygiene Asso., 370 Seventh Ave., New York City.
- J. Soc. Psych. Res.* Journal of the Society for Psychical Research. (Publ) Society for Psychical Research, 31, Tavistock Sq., London W. C. 1, England.
- Jahrb. f. Nationalökonomie u. Statistik* Jahrbücher für Nationalökonomie und Statistik (Bimo). (Ed) Elster, L., Max-Reger-Weg 4, Jena, Germany. (Publ) G. Fischer, Jena, Germany.

- Jahrb. f. wiss. Bot.* Jahrbücher für wissenschaftliche Botanik. (Ed) Fitting, H., Poppelsdorfer Schloss, Bonn, Germany. (Publ) Gebr. Bornträger, Berlin W 35, Germany.
- Jena Beitr. z. Jugend.* Jena Beiträge zur Jugendkunde. (Publ) Jena Univ., Jena, Germany.
- Jeschurun* Jeschurun (Mo). (Ed) Wohlgemuth, J., Liniestr. 147, Berlin N 24, Germany.
- Jeugd en Beroep* Jeugd en Beroep (Mo). (Ed) Van Det, E. J., & Van Meyer, P. N., Amstellaan 145, Amsterdam (Z), Holland. (Publ) J. Muusses, Purmerend, Holland.
- Johns Hopkins Univ. Stud. Educ.* The Johns Hopkins University studies in education. (Ed) Buchner, E. F. (Publ) The Johns Hopkins Press, Baltimore, Md.
- Kantstud.* Kant-Studien (Irreg). (Ed) Frischelsen-Köhler, M., Universität, Halle a/S., Germany. (Publ) Reuther & Reichard, Berlin, Germany.
- Kölner Vjsch. f. Soziol.* Kölner Vierteljahrshefte für Soziologie (Q). (Ed) Von Wiese, L., Claudiusstr. 1, Köln a/Rh., Germany. (Publ) Duncker & Humblot, München, Germany.
- Krankendienst* Krankendienst (Mo). (Ed) Fischer, M. (Publ) Verband kathol. Kranken- und Pflegeanstalten Deutschlands, Freiburg i. Br., Werderstr. 4, Germany.
- Labor Bull.* Labor bulletin. (Publ) Decatur, Ill.
- L'Algérie méd.* L'Algérie médicale (Mo). (Publ) 10, rue Berthezene, Algiers, Algeria.
- Lancet* The lancet (W). (Ed) Good, C. (Publ) The Lancet, London, England.
- L'Anthrop.* L'Anthropologie (Bimo). (Ed & Publ) Masson & Cie, 120, Boul. St-Germain, Paris, France.
- Logos* Logos (Irreg). (Ed) Kroner, R. (& others), Schwimmbadstr. 19, Freiburg i. B., Germany. (Publ) J. C. B. Mohr, Tübingen, Germany.
- Mädchenbildung auf christlicher Grundlage* Mädchenbildung auf christlicher Grundlage (Bimo). (Ed) Schulz, E. (Publ) Ferdinand Schöningh, Paderborn, Germany.
- Magyar Psychologiai Szemle* Magyar Psychologiai Szemle (Q). (Ed) Juhász, A., Budapest, Hungary. (Publ) Novak Rudolf és Tarsa, VIII Baross Ucca, Budapest IV, Hungary.
- Man* Man (Mo). (Publ) Royal Anthropological Institute of Great Britain & Ireland, 50, Great Russell St., London W. C. 1, England.
- Man in India* Man in India (Q). (Publ) Ranchi, India.
- Manicomio* Il Manicomio: Archivio di psichiatria e scienze affini. (Publ) Nocera, Italy.
- Manns päd. Mag.* Manns pädagogisches Magazin. (Publ) Beyer & Mann, Langensalza, Germany.
- Mannus: Zsch. f. Vorgesch.* Mannus: Zeitschrift für Vorgeschichte (Irreg). (Ed) Kossina, G., Karlstr. 10, Berlin-Lichterfelde, Germany. (Publ) C. Kabitzsch, Leipzig, Germany.
- Mecklenburgisches Kirchen- und Zeitblatt* Mecklenburgisches Kirchen- und Zeitblatt (Fortn). (Ed) Dazer, H. (Publ) Eberhardtsche Hof- u. Ratsbuchdr., Wismar i. M., Germany.
- Med. J. & Rec.* Medical journal and record (Fortn). (Publ) A. R. Elliott Publ. Co., 53 Park Pl., New York City.
- Meded. u. h. Psychol. Lab. d. Rijksuniv. t. Utrecht* Mededeelingen uit het Psychologisch Laboratorium der Rijksuniversiteit te Utrecht. (Publ) Utrecht, Holland.
- Mensch en Maatschappij* Mensch en Maatschappij (Bimo). (Ed) Ter Veen, H. N., Breedeweg 26, Amsterdam (Oost), Holland. (Publ) P. Noordhoff, Postgiro 6529, Groningen, Holland.
- Ment. Hygiene* Mental hygiene (Q). (Ed) Williams, F. E., 370 Seventh Ave., New York City. (Publ) Nat. Committee for Mental Hygiene, 27 Columbia St., Albany, N. Y.
- Ment. Meas. Monog.* Mental measurement monographs (Irreg). (Ed) Johnson, B., & Dunlap, K., Johns Hopkins Univ., Baltimore, Md. (Publ) Williams & Wilkins Co., Baltimore, Md.
- Mercur de France* Mercure de France (Bimo). (Ed) Vallette, A., 26, rue de Condé, Paris VI, France.
- Metron* Metron. (Ed) Gini, C., Istituto di Statistica, 10 Via dell Terme de Disceriano, Rome, Italy.
- Mich. Acad. Sci., Arts & Letters* Michigan Academy of Sciences, Arts, and Letters. (Publ) Ann Arbor, Mich.
- Mich. Bus. Stud.* Michigan business studies (Irreg). (Publ) Univ. of Michigan, Ann Arbor, Mich.
- Mo. Labor Rev.* Monthly labor review (Mo). (Ed) Davis, J. K. (Publ) Govt. Printing Office, Washington, D. C.
- Mod. Lang. J.* Modern language journal (Mo. from Oct. to May). (Ed) Morgan, B. Q., Univ. of Wisconsin, Madison, Wis. (Publ) National Federation of Modern Language Teachers, Madison, Wis.
- Monatsch. f. Gottesdienst u. kirchliche Kunst* Monatschrift für Gottesdienst und kirchliche Kunst (Mo). (Ed) Smend, J., Melchersstr. 7, Münster, Germany. (Publ) Vandenhoeck & Ruprecht, Göttingen, Germany.
- Monatsch. f. Krimpsychol. u. Strafrechtsref.* Monatschrift für Kriminalpsychologie und Strafrechtsreform (Bimo). (Ed) Aschaffenburg, G., Stadtwaldgürtel 30, Cologne, Germany. (Publ) C. Winters Universitätsbuchh., Heidelberg, Germany.
- Monatsch. f. Ohrenhkk.* Monatschrift für Ohrenheilkunde und Laryngo-Rhinologie (Mo). (Ed) Urbartschitsch, E. (Publ) Urban & Schwarzenberg, Friedrichstr. 105B, Berlin W, Germany.
- Monde méd.* Monde médical (Bimo). (Publ) 47, rue du Docteur-Blanche, Paris, France.
- Monist* The monist (Q). (Publ) Open Court Publ. Co., 122 South Michigan Ave., Chicago, Ill.
- Monist. Monatsch.* Monistische Monatshefte (Mo). (Ed) Riess, C. (Publ) Hamburger Verlag, Hamburg 36, Germany.
- Monog. a. d. Gesamtgeb. Neur. u. Psychiat.* Monographien aus dem Gesamtgebiete der Neurologie und Psychiatrie (Irreg). (Ed) Foerster, O., Breslau, & Wilmanns, K., Heidelberg, Germany. (Publ) J. Springer, Berlin, Germany.
- Münch. med. Woch.* Münchener medizinische Wochenschrift (W). (Ed) Spatz, B. (& others), Arnulfstr. 26, München, Germany. (Publ) J. F. Lehmann, München, Germany.
- Musiq. Quar.* Musical quarterly (Q). (Ed) Sonneck, O. Q. (Publ) G. Schirmer, Inc., 3 East 43d St., New York City.
- Nat. Geog. Mag.* National geographic magazine (Mo). (Publ) National Geographic Soc., Hubbard Memorial Hall, Washington, D. C.
- Nat. Hist.* Natural history (Bimo). (Publ) American Museum of Natural History, 77th St. & Eighth Ave., New York City.
- Nat. Municip. Rev.* National municipal review (Mo). (Ed) Dodds, H. W. (Publ) National Municipal League, Rumford Building, Concord, N. H.
- Nat. Rev.* National review. (Publ) Hutton & Bagehot, London, England.
- Nation* The nation (W). (Ed) Villard, O. G. (Publ) The Nation, Inc., 20 Vesey St., New York City.
- Naturwissenschaften* Die Naturwissenschaften (W). (Ed) Berliner, A., Berlin W. 9, Germany. (Publ) J. Springer, Berlin, Germany.
- Neue allg. Missionszsch.* Neue allgemeine Missionszeitschrift (Mo). (Ed) Richter, J., Berlin-Steglitz, Grillparzerstr. 15, Germany. (Publ) E. Bertelsmann, Gütersloh, Germany.
- Neue deutsche Schule* Die neue deutsche Schule (Mo). (Ed) Raederscheidt, G., Akademie, Bonn, Germany. (Publ) Moritz Diesterweg, Frankfurt, a.M., Germany.
- Neue psychol. Stud.* Neue psychologische Studien. (Ed) Krueger, F., Universität, Leipzig, Germany. (Publ) C. H. Beck'sche Verlag, München, Germany.
- Neue Schweiz. Rund.* Neue Schweizer Rundschau (Bimo). (Ed) Rychnner, M., Zeugwartgasse 3, Zürich, Switzerland. (Publ) Art. Institut Orell Füssli, Verlag, Friedhelmstr. 3, Zürich, Switzerland.
- Neues Sächsisches Kirchenbl.* Neues Sächsisches Kirchenblatt (W). (Ed) Franke, R., Johannisplatz 1, Löbau (Sachsen), Germany. (Publ) Urwed Strauch Blgsh., Leipzig, Germany.
- Neur. bull.* Neurological bulletin. (Publ) New York City.
- New Era* New era. (Publ) 11 Tavistock Sq., London W. C. 1, England.
- New Scholas.* The new scholasticism (Q). (Ed) Pace, E. A., & Ryan, J. H., Catholic Univ., Washington, D. C. (Publ) Catholic Univ. Press, 23 South Hanover St., Baltimore, Md.
- Nineteenth Cent.* Nineteenth century (Mo). (Publ) Leonard Scott Publ. Co., 249 West 13th St., New York City.
- North Amer. Rev.* North American review (Mo). (Ed) Mahony, W. B., 9 East 37th St., New York City. (Publ) Rumford Press, Concord, N. H.
- North Carolina Law Rev.* North Carolina law review (4 issues during college year). (Publ) Univ. of North Carolina, School of Law, Chapel Hill, N. C.
- Note e riv. psichiat.* Note e rivista di psichiatria. (Ed) Alberti, A., Manicomio, Pesaro, Italy. (Publ) Manicomio S. Nicolò, Pesaro, Italy.
- Occup. Therap. & Rehab.* Occupational therapy and rehabilitation (Bimo). (Ed) Duntun, W. R., Jr., Harlem Lodge, Catonsville, Md. (Publ) Williams & Wilkins Co., Baltimore, Md.
- Ohio State Univ. Stud., Contrib. in Admin.* Ohio State University studies, contributions in administration (Irreg). (Publ) Ohio State Univ., Columbus, Ohio.
- Okkult. Rund.* Okkultistische Rundschau (Mo). (Ed) Uhlmann, W., Kanalstr. 2, Chemnitz, Germany. (Publ)

- Paul Zillmann, Ringstr. 47, Berlin-Lichterfelde, Germany.
- Open Court* Open court (Mo). (Ed) Carus, Mrs. P. (Publ) Open Court Publ. Co., 122 South Michigan Ave., Chicago, Ill.
- Opportunity* Opportunity (Mo). (Ed) Johnson, C. S. (Publ) National Urban League, 127 East 23d St., New York City.
- Pacific Affairs* Pacific affairs (Mo). (Ed & Publ) International Secretariat of the Institute of Pacific Relation, Davis, J. M., Gen. Sec., P. O. Box 1561, Honolulu, Hawaii.
- Päd. Warte* Pädagogische Warte (Fortu). (Ed) Schnass, F., Schlagerstr. 44, Hanover, Germany. (Publ) A. W. Zickfeldt, Osterweck a.H., Germany.
- Päd. Zentbl.* Pädagogisches Zentralblatt (Mo). Zentralinstitut für Erziehung und Unterricht. (Publ) J. Beltz, Langensalza, Germany.
- Paris méd.* Paris médical: La semaine du clinicien. (Ed) Gilbert, A. (& others). (Publ) J. B. Baillière & Fils, 19, rue Hauteville, Paris, France.
- Pastor bonus* Pastor bonus: Zeitschrift für kirchliche Wissenschaft und Praxis. (Ed) Professoren des Priesterseminars. (Publ) Paulinus-Druckerei, Trier, Germany.
- Ped. Sem.*, see *J. Genet. Psychol.*
- Person. J.* The personnel journal (Bimo). (Ed) Bingham, W. V., Personnel Research Federation, 40 West 40th St., New York City. (Publ) Williams & Wilkins Co., Mount Royal & Guilford Aves., Baltimore, Md.
- Pflüg. Arch. f. d. ges. Physiol.* Pflügers Archiv für die gesamte Physiologie des Menschen und der Tiere (Irreg). (Ed) Aberhalden, E., Physiologisches Institut, Halle a/M., Germany. (Publ) J. Springer, Berlin, Germany.
- Pharus* Pharus: Katholische Monatschrift für Orientierung in der gesamten Pädagogik (Mo). (Ed) Lechner, M. (Publ) L. Auer, Donauwörth, Germany.
- Phil. u. Leben* Philosophie und Leben (Mo). (Ed) Messer, A., Stephanstr. 25, Giessen, Germany. (Publ) E. Staude, Komm. Ges. Osterweck a. H., Germany.
- Phil. Rev.* The philosophical review (Bimo). (Ed) Hammond, W. A., & Thilly, F. (Publ) Longmans Green & Co., Fifth Ave. & 12th St., New York City.
- Philippine Pub. Schools* Philippine public schools (Mo). (Ed) Bewley, L. B. (Publ) The Bureau of Education, Manila, P. I.
- Phys. Rev.* The physical review: a journal of experimental and theoretical physics (Mo). (Ed) Fulcher, G. S., Corning, N. Y. (Publ) American Physical Society, Corning, N. Y.
- Physiol. Revs.* Physiological reviews. (Ed) Hooker, D. R., 1222 St. Paul St., Baltimore, Md. (Publ) American Physiological Society, 1222 St. Paul St., Baltimore, Md.
- Physiol. Zool.* Physiological zoology (Q). (Ed) Child, C. M. (Publ) Univ. of Chicago Press, 5811 Ellis Ave., Chicago, Ill.
- Playground* Playground (Mo). (Publ) Playground and Recreation Asso. of America, 315 Fourth Ave., New York City.
- Police J. (London)* Police journal (London). (Publ) London, England.
- Polskie Arch. Psychol.* Polskie Archiwum Psychologii (Q). Joteyko, J. (Publ) Sklad Główny: W Związku Polsk. Jaucz. Szkół Powaz, Marszałkowska 123, Warszawa, Poland. (Discontinued, 1929.)
- Presse méd.* La presse médicale (Twice weekly). (Ed) Desfosses, P., & Dumont, J., 120, Boul. St-Germain, Paris, France. (Publ) Masson & Cie, Paris, France.
- Proc. & Addr. Amer. Asso. Stud. Feeble-Minded* Proceedings and addresses of the American Association for the Study of Feeble-mindedness (An). (Ed) Murdock, J. M., Polk, Pa. (Publ) American Asso. for the Study of the Feeble-minded, Polk, Pa.
- Proc. Nat. Acad. Sci.* Proceedings of the National Academy of Science of the United States of America (Mo). (Ed) Wilson, E. B., Harvard School of Public Health, Boston, Mass.
- Proc. Roy. Soc. N. S. Wales* Proceedings of the Royal Society of New South Wales. (Publ) Sydney, Australia.
- Proc. Soc. Psych. Res.* Proceedings of the Society for Psychological Research (English) (Mo). (Publ) Society for Psychological Research, London, England.
- Prophyl. ment.* La prophylaxie mentale (Q). (Ed) Genil-Perrin, G. (Publ) Le Mouvement Sanitaire, 4, rue de Sévres, Paris, France.
- Psyche* Psyche (Q). (Ed) Ogden, C. K. (Publ) Kegan Paul, Trench, Trubner & Co., 68-74 Carter Lane, London, England.
- Psychiat.-neur. Woch.* Psychiatrisch-neurologische Wochenschrift (W). (Ed) Bresler, J. (Publ) C. Marhold, Halle a/S., Germany.
- Psychiat. Quar.* The psychiatric quarterly (Q). (Ed) Pollock, H. M. (Publ) Utica State Hospital, Albany, N. Y.
- Psychoanal. Rev.* The psychoanalytic review: a journal devoted to an understanding of human conduct (Q). (Ed) White, W. A., & Jelliffe, S. E., 27 Columbia St., Albany, N. Y. (Publ) Nervous & Mental Disease Publ. Co., 372-374 Broadway, Albany, N. Y.
- Psychol. Bull.* Psychological bulletin (10 issues annually). (Ed) Fernberger, S. W., Univ. of Pennsylvania, Philadelphia, Pa. (Publ) Psychological Review Co., Princeton, N. J.
- Psychol. Clin.* The psychological clinic for the normal development of every child (9 issues annually). (Ed) Witmer, L., College Hall, Woodland Ave. & 36th St., Philadelphia, Pa. (Publ) Psychological Clinic Press, College Hall, Woodland Ave. & 36th St., Philadelphia, Pa.
- Psychol. Forsch.* Psychologische Forschung (Irreg). (Ed) Wertheimer, M., Frankfurt a.M., Germany. (Publ) J. Springer, Berlin, Germany.
- Psychol. Index* The psychological index (An). (Ed) Hunter, W. S., & Willoughby, R. R., Clark Univ., Worcester, Mass. (Publ) Psychological Review Co., Princeton, N. J.
- Psychol. u. Med.* Psychologie und Medizin (Q). (Ed) Schulte, R. W., Schonwalder Allee 62, Berlin-Spandau, Germany. (Publ) F. Enke, Stuttgart, Germany.
- Psychol. Monog.* Psychological monographs (Irreg). (Ed) Dodge, R., Yale Univ., New Haven, Conn. (Publ) Psychological Review Co., Princeton, N. J.
- Psychol. Rev.* Psychological review (Bimo). (Ed) Warren, H. C., Princeton, N. J. (Publ) Psychological Review Co., Princeton, N. J.
- Psychol. Rund.* Psychologische Rundschau (Mo). (Ed) Schaefer, K. F., Holbeinstr. 28, Zürich, Switzerland. (Publ) E. Birkhäuser, & Co., Basel, Germany.
- Psychol. et vie* La psychologie et la vie (Mo). (Ed) Masson-Oursel, P. (Publ) 35, rue Boissy-d'Anglais, Paris, France.
- Psychologische Monog.* Psychologische Monographien. (Ed) Buhler, K. (Publ) S. Hirzel, Leipzig, Germany.
- Psychotechn. Zsch.* Psychotechnisches Zeitschrift (Bimo). (Ed) Rupp, H., Schloss (Psycholog. Institut), Berlin C 2, Germany. (Publ) R. Oldenbourg, München, Germany.
- Pub. Person. Stud.* Public personnel studies (Mo). (Publ) Bureau of Public Personnel Administration, 123 East 60th St., Chicago, Ill.
- Publ. Amer. Sociol. Soc.* Publications of the American Sociological Society (An). (Publ) Univ. of Chicago Press, Chicago, Ill.
- Quad. psichiat.* Quadern di psichiatria. (Ed) Morselli, E., Via Assarotti, 46, Genoa, Italy. (Publ) Casa Ed. "Problemi moderni," Genoa, Italy.
- Quar. J. Exper. Physiol.* Quarterly journal of experimental physiology (Q). (Ed) Schaefer, E. S. (& others), Edinburgh, Scotland. (Publ) Chas. Griffin & Co., Ltd., Exeter St., Strand, London W. C. 2, England.
- Quar. J. Univ. N. Dak.* Quarterly journal of the University of North Dakota (Q). (Ed) Towne, E. T. (Publ) Univ. of North Dakota, Grand Forks, N. D.
- Quar. Rev. Biol.* Quarterly review of biology (Q). (Ed) Pearl, R., Johns Hopkins Univ., Baltimore, Md. (Publ) Williams & Wilkins Co., Baltimore, Md.
- Records of Progress* Records of progress (Q). (Ed) Broda, R. (Publ) League for the Organization of Progress, Yellow Springs, Ohio.
- Reichsarbeitsblatt* Reichsarbeitsblatt (W). (Ed) Wende, Berlin-Friedenau, Germany. (Publ) Verlag des Reichsarbeitsblattes (Reimar Hobbing), Grossbeerenstr. 17, Berlin SW 61, Germany.
- Rel. Educ.* Religious education (Mo). (Publ) Religious Education Association, G. A. Coe, Chairman, 308 North Michigan Ave., Chicago, Ill.
- Repr. & Cir. Ser. Nat. Res. Coun.* Reprint and circular series of the National Research Council. (Publ) Publ. Office, National Research Council, Washington, D. C.
- Res. Bull. Nat. Educ. Asso.* Research bulletin of the National Education Association (5 issues annually). (Publ) National Education Asso., 1201 16th St., Washington, D. C.
- Rev. Crimin. Psiquiat. y Med.* Revista de criminología psiquiatria y medicina legal. (Publ) Buenos Aires, South America.
- Rev. fr. d'ornithol.* Revue française d'ornithologie scientifique et pratique. (Société ornithologique de France.) (Publ) Paris, France.
- Rev. fr. de psychanal.* Revue française de psychanalyse. (Ed) Hesnard, A. (& others). (Publ) G. Doin, Paris, France.
- Rev. gén. sci.* Revue générale des sciences pures et appliquées (Semimo). (Ed) Mangin, M. (Publ) G. Doin, Paris, France.
- Rev. d'hist. nat. appl.* Revue d'histoire naturelle appliquée (Mo). (Publ) 198, Boul. St-Germain, Paris, France.

- Rev. int. de sociol.* Revue internationale de sociologie (Bimo). (Ed) Richard, G. (Publ) Marcel Giard, 16, rue Sufflot & 12, rue Tossier, Paris, France.
- Rev. de mét. et de mor.* Revue de métaphysique et de morale (Q). (Ed) Leon, X. (Publ) Librairie Collin, 103, Boul. St. Michel, Paris, France.
- Rev. neur.* Revue neurologique (Mo). (Ed) Meige, H. (Publ) Masson & Cie, 120, Boul. St-Germain, Paris, France.
- Rev. d'optique théor.* Revue d'optique théorique et instrumentale (Mo). (Publ) 3, Boul. Pasteur, Paris, France.
- Rev. oto-neur-oftal.* Revista Oto-neuro-oftalmológica y de cirugía neurológica. (Ed) Pavla, J. L. (Publ) Casilla de Correo 325, Buenos Aires, Argentina.
- Rev. de ped.* Revista de pedagogía. (Ed) Lusuriaga, L., Miguel Angel 31, Apartado 6002, Madrid, Spain.
- Rev. phil.* Revue philosophique de la France et de l'étranger (Bimo). (Ed) Lévy-Bruhl, L. (Publ) F. Alcan, 108, Boul. St-Germain, Paris, France.
- Rev. de phil.* Revue de philosophie (Bimo). (Ed) Peillaube, E., 6, rue de Bagneux, Paris, France. (Publ) M. Rivière, Paris, France.
- Rev. de psychol. concrète* Revue de psychologie concrète. (Ed) Politzer, C. (Publ) "Les Revues" 47, rue Monsieur-le-Prince, Paris, France.
- Rinascenza med.* Rinascenza medica (Fortn). (Publ) Naples, Italy.
- Rinnovamento* Rinnovamento. (Publ) Milan, Italy.
- Riv. pat. nerv. e ment.* Rivista di patologia nervosa e mentale. (Publ) Firenze, Italy.
- Riv. di psicol.* Rivista di psicologia (Q). (Ed) Ferrari, G. C., Piazza Calderini, Bologna, Italy. (Publ) N. Zanichelli, Bologna, Italy.
- Schildgenossen* Die Schildgenossen (Bimo). (Ed) Neundorfer, L., Wormserstr. 19, Lorsch (Hessen), Germany. (Publ) Matthias-Grünwald-Verlag, Mainz, Germany.
- Scholle* Die Scholle (W). (Publ) Anhalt. Rundschau, Fürstenstr. 11, Dessau, Germany.
- School & Soc.* School and society (W). (Ed) Cattell, J. McK., Grand Central Terminal, New York City. (Publ) Science Press, Garrison, N. Y.
- Schule u. Evang.* Schule und Evangelium (Mo). (Ed) Pape, G., Mittelstr. 49, Bielefeld, Germany. (Publ) J. F. Steinkopf, Marlenstr. 11, Stuttgart, Germany.
- Schweiz. Arch. f. Neur. u. Psychiat.* Schweizer Archiv für Neurologie und Psychiatrie (Q). (Ed) Von Monakow, C., Dufourstr. 116, Zürich, 8, Switzerland. (Publ) Art. Institut Orell Füßli, Friedhelmstr. 3, Zürich, Switzerland.
- Schweiz. med. Woch.* Schweizerische medizinische Wochenschrift (W). (Ed) Gigon, A., & Bircher, E. (Publ) Benno Schwabe & Co., Klosterberg 27, Basel, Switzerland.
- Schweiz. Rund.* Schweizerische Rundschau (Mo). (Ed) Doka, C., Plattenstr. 48, Zürich, Switzerland. (Publ) Verlagsanstalt Benziger & Co., Einsiedeln, Switzerland.
- Schweiz. Zsch. f. angew. Psychol.* Schweizerische Zeitschrift für angewandte Psychologie (Mo). (Ed) Deuss, B. (Publ) Schweizer Vereinigung d. Freunde Coues, Bleicherweg 40, Zürich, Switzerland.
- Science* Science (W). (Ed) Cattell, J. McK., Grand Central Terminal, New York City. (Publ) Science Press, Garrison, N. Y.
- Scient. Amer.* Scientific American (Mo). (Ed) Munn, O. D. (Publ) Scientific American, 24 West 40th St., New York City.
- Scient. Mo.* The scientific monthly (Mo). (Ed) Cattell, J. McK., 3939 Grand Central Terminal, New York City. (Publ) Science Press, Garrison, N. Y.
- Scientia* Scientia (Mo). (Ed) Rignano, E., Via A. de Togni 12, Milano, Italy. (Publ) Nicola Zanichelli, Bologna, Italy.
- Seelsoorge* Die Seelsoorge (Mo). (Ed) Hoffmann, H., Antonenstr. 20, Breslau 1, Germany. (Publ) Frankes Buchh., Habelschwerdt, Germany.
- Sitzber. Akad. Wiss., Berlin* Sitzungsberichte der Akademie der Wissenschaften, Berlin (Irreg). (Ed) Akademie der Wissenschaften, Berlin, Germany. (Publ) Vereinigung wissenschaftlicher Verleger, Genthinerstr. 10, Berlin, Germany.
- Smithsonian Miscel. Collect.* Smithsonian miscellaneous collection. (Ed) Smithsonian Institution Washington, D. C. (Publ) Lord Baltimore Press, Baltimore, Md.
- So. African J. Sci.* South African journal of science. (Publ) South African Asso. for the Advancement of Science, Capetown, South Africa.
- Soc. Forces* Social forces (Mo). (Ed) Odum, H. W. (Publ) Williams & Wilkins Co., Baltimore, Md.
- Soc. Sci.* Social science (Q). (Ed) Allen, L., Southwestern College, 1414 East Fourth Ave., Winfield, Kansas. (Publ) National Social Science Honor Society, Winfield, Kansas.
- Soc. sci. et biol. de Montpellier* Société scientifique et biologique de Montpellier. (Publ) Univ. de Montpellier, Paris, France.
- Soc. Serv. Rev.* Social service review (Q). (Ed) Abbott, E., & Breckinridge, S. P., Univ. of Chicago, Chicago, Ill. (Publ) Univ. of Chicago Press, Chicago, Ill.
- Sociol. Rev.* The sociological review (Q). (Ed & Publ) Branford, V., & Farquharson A., 65 Belgrave Rd., Westminster, London S. W. 1, England.
- Southern Med. J.* Southern medical journal (Mo). (Ed) Dabney, M. Y. (Publ) Southern Medical Asso., Empire Building, Birmingham, Ala.
- Southwest Rev.* Southwest review (Q). (Ed) Bond, G. (& others). (Publ) Southern Methodist Univ., Dallas, Texas.
- Stimmen der Zeit* Stimmen der Zeit: Monatschrift für das Geistesleben der Gegenwart (Mo). (Ed) Sierp, H., Peterlinstr. 9, München, Germany. (Publ) Herder & Co., Freiburg, Germany.
- Studium* Studium: Wochenschrift für universelle Bildung und Gesundheitspflege (W). (Publ) Stuttgart, Germany.
- Süddeutsche Monatsch.* Süddeutsche Monatshefte (Mo). (Ed) Cossmann, P. N., Königstr. 103/III, München, Germany. (Publ) Süddeutsche Monatshefte, München, Germany.
- Supp. Educ. Monog.* Supplementary educational monographs (Irreg). (Ed) Committee of School of Education, Univ. of Chicago, Chicago, Ill. (Publ) Univ. of Chicago Press, Chicago, Ill.
- Survey* Survey (Fortn). (Ed) Kellogg, P. U. (Publ) Survey Associates, Inc., 112 East 19th St., New York City.
- Svenska läkart.* Svenska läkartidningen (W). (Ed) Törnelli, G., Stockholm, Sweden. (Publ) Sveriges läkareförbund, Stockholm, Sweden.
- S. W. Pol. Soc. & Sci. Quar.* Southwestern political and social science quarterly (Q). (Ed) Patterson, C. P. (Publ) Univ. of Texas, Austin, Texas.
- Sydney Univ. Repr.* Sydney University reprints. (Publ) Sydney Univ., Sydney, Australia.
- Tat* Die Tat (Mo). (Ed) Kuckhoff, A. (Publ) Eugen Diederichs Vlg., Jena, Germany.
- Teach. Coll. Contrib. Educ.* Teachers College contributions to education. (Ed) Russell, J. E., Teachers College, Columbia Univ., New York City. (Publ) Bureau of Publications, Teachers College, Columbia Univ., New York City.
- Teach. Coll. Rec.* Teachers College record (Q). (Ed) Russell, J. E., Teachers College, Columbia Univ., New York City. (Publ) Bureau of Publications, Teachers College, Columbia Univ., New York City.
- Texas State J. Med.* Texas state journal of medicine (Mo). (Ed) Taylor, H. (Publ) State Medical Asso. of Texas, 207½ West 11th St., Fort Worth, Texas.
- Theol. u. Glaube* Theologie und Glaube (Bimo). (Ed) Schneider, Paderborn, Germany. (Publ) Bonifatius-Druckerei, Paderborn, Germany.
- Tidjchr. v. Volkskunde* Tijdschrift voor Indische Taal-, Land-, en Volkenkunde. (Publ) Batavia.
- Tr. School Bull.* The Training School bulletin (Mo. exc. July & Aug.). (Ed) Johnstone, E. R. (& others). (Publ) The Training School, Vineland, N. J.
- Trans. Illum. Eng. Soc.* Transactions of the Illuminating Engineering Society (Mo. exc. June & Aug.). (Publ) Illuminating Engineering Society, Easton, Pa.
- Trans. Opt. Soc. Lond.* Transactions of the Optical Society of London. (Publ) London, England.
- Trav. d. Lab. d. Rech. Biol. d. FUniv. d. Madrid.* Travaux du Laboratoire de Recherches Biologiques de l'Université de Madrid. (Publ) Ramón y Cajal, S., Univ. of Madrid, Madrid, Spain.
- Travel* Travel (Mo). (Publ) R. M. McBride & Co., Inc., 7 West 16th St., New York City.
- Unitas* Unitas (Mo). (Ed) Stud. Rat. Ohlendorf, Isabellenstr. 13, Köln, Germany. (Publ) Rennebohm & Hausknecht, Bielefeld, Germany.
- Univ. Cal. Publ. Psychol.* University of California publications in psychology. (Publ) Univ. of California Press, Berkeley, Calif.
- Univ. Cal. Publ. Zool.* University of California publications in zoology. (Publ) Univ. of California Press, Berkeley, Calif.
- Univ. Ill. Bull.* University of Illinois bulletin. (Publ) Univ. of Illinois, Urbana, Ill.
- Univ. Iowa Monog. Educ.* University of Iowa monographs in education. (Publ) Univ. of Iowa, Iowa City, Iowa.
- Univ. Iowa Stud.* University of Iowa studies. (Publ) Univ. of Iowa, Iowa City, Iowa.
- Univ. Minn. Agric. Exper. Sta.* University of Minnesota Agricultural Experiment Station. (Publ) University Farm, St. Paul, Minn.
- Univ. Minn. Fac. Bull.* University of Minnesota faculty bulletin. (Publ) Univ. of Minnesota, St. Paul, Minn.
- Univ. Minn. Res. Bull.* University of Minnesota research bulletin. (Publ) Univ. of Minnesota, St. Paul, Minn.
- Univ. Miss. Agric. Res. Bull.* University of Missouri ag-

- ricultural research bulletin. (Publ) Univ. of Missouri, Columbus, Mo.
- Univ. N. Car. Bull. University of North Carolina bulletin. (Publ) Chapel Hill, North Carolina.
- Univ. Ore. Publ. University of Oregon publications. (Publ) Univ. of Oregon, Eugene, Oregon.
- Univ. Rochester, Stud. Psychol. University of Rochester, studies in psychology (Eastman School of Music). (Publ) Univ. of Rochester, Rochester, N. Y.
- U. S. Bur. Educ., Lib. Dir. Bull. United States Bureau of Education, library directory bulletin. (Publ) Govt. Printing Office, Washington, D. C.
- U. S. Child. Bur. United States Childrens Bureau. (Publ) Govt. Printing Office, Washington, D. C.
- U. S. Nat. Mus. Bull. United States National Museum bulletin. (Publ) Govt. Printing Office, Washington, D. C.
- U. S. Naval Med. Bull. United States naval medical bulletin (Q). (Publ) Bureau of Medicine and Surgery, Navy Department, Washington, D. C.
- U. S. Pub. Health Rep. United States public health reports. (Publ) Govt. Printing Office, Washington, D. C.
- U. S. Veterans' Bur., Med. Bull. United States Veterans' Bureau, medical bulletin (Mo). (Ed) Carr, P. W. (Publ) Govt. Printing Office, Washington, D. C.
- U. S. Womens Bur. United States Department of Labor, bulletin of the Women's Bureau. (Publ) Govt. Printing Office, Washington, D. C.
- Virginia Quar. Rev. Virginia quarterly review (Q). (Publ) Univ. of Virginia, University, Va.
- Vjesh. f. wiss. Päd. Vierteljahrsschrift für wissenschaftliche Pädagogik (3 issues annually). (Ed) Honecker, M., Freiburg, Germany. (Publ) Münsterverlag, Münster, Germany.
- Voc. Guid. Mag. Vocational guidance magazine (Mo. exc. June, July, Aug. & Sept.). (Ed) Allen, F. J. (Publ) Bur. Voc. Guid., Graduate School of Education, Cambridge, Mass.
- Volksaufklärung, Erbkunde, Eheberatung Volksaufklärung, Erbkunde, Eheberatung (Mo). (Ed) Ostermann, A., Leipzigerstr. 3, Berlin, Germany. (Publ) A. Metzner, Berlin, Germany.
- Volkmission Die Volksmission. (Publ) Wichern-Verlag, Berlin-Dahlem, Germany.
- Welfare Mag. Welfare magazine. (Publ) Dept. of Public Welfare, Springfield, Ill.
- Weltwirtschaftliches Arch. Weltwirtschaftliches Archiv (Q). (Ed) Harms, B. (Publ) G. Fischer, Jena, Germany.
- Wien. Zsch. f. d. Kunde d. Morgenlandes Wiener Zeitschrift für die Kunde des Morgenlandes (Q). (Ed) Geyer, R., Türkenschanzstr. 22, Wien XVIII, Austria. (Publ) Orientalisches Institut, Universität, Wien I, Austria.
- Wien. Zsch. f. Volkskd. Wiener Zeitschrift für Volkskunde. (Ed) Haberlandt, M. (Publ) Verein für Volkskunde, Laudongasse 17, Wien VIII, Austria.
- World Tomorrow World tomorrow (Mo). (Ed) Thomas, N. (Ed) others. (Publ) Fellowship Press, 118 East 28th St., New York City.
- World Unity World unity bulletin. (Publ) Brooklyn, N. Y.
- Yale Alumni Weekly Yale alumni weekly (W). (Publ) Yale Publ. Co., 120 High St., New Haven, Conn.
- Yale J. Biol. & Med. Yale journal of biology and medicine. (Publ) 333 Cedar St., New Haven, Conn.
- Yale Rev. Yale review (Q). (Ed) Cross, W., 143 Elm St., New Haven, Conn. (Publ) Yale Univ. Press, New Haven, Conn.
- Zentbl. Chir. Zentralblatt für Chirurgie (W). (Ed) Borchard, A., Lietzenseeufer 6, Berlin-Charlottenburg, Germany. (Publ) Johann Ambrosius Barth, Salomonstr. 18b, Leipzig, Germany.
- Zentbl. f. Okkult. Zentralblatt für Okkultismus (Mo). (Ed & Publ) Max Altmann, Frommannstr. 5, Leipzig C 1, Germany.
- Zhurnal psikhologii, pedagogii i psikhotehniki Serie A. Psychologil. (Ed) Kornilov, K. N. Serie B. Pedologil. (Ed) Zalkind, A. B. (Publ) Gosudarstvennoe Izdatelstvo (gosizdat), Moskva, Leningrad, U. S. S. R.
- Zsch. f. angew. Psychol. Zeitschrift für angewandte Psychologie (Bimo). (Ed) Stern, W., Hamburg 13, Bei St. Johannis 10, & Lipmann, O., Nannseest., Neubabelsberg, Germany. (Publ) Johann Ambrosius Barth, Salomonstr. 18b, Leipzig C 1, Germany.
- Zsch. f. Aezese u. Myatik Zeitschrift für Aezese und Myatik (Q). (Ed) Ersin, A., Sillgasse 2, Innsbruck, Germany. (Publ) Verlagsanstalt Tyrolia A.-S., Maximilianstr. 9, Innsbruck, Germany.
- Zsch. f. Kinderforsch. Zeitschrift für Kinderforschung (Q). (Ed) Isserlin, M., Mariannenplatz 2, München, & Von der Leyen, R., Bayerischestr. 9, Berlin W 15, Germany. (Publ) J. Springer, Berlin W 9, Germany.
- Zsch. f. Kinderhkk. Zeitschrift für Kinderheilkunde (Bimo). (Ed) Finkelstein, H., Lietzenburgerstr. 1, Berlin W 15, Germany (& others). (Publ) J. Springer, Berlin W 9, Germany.
- Zsch. f. Menschenkd. Zeitschrift für Menschenkunde (Irreg.). (Ed) Von Hattingberg, H., Altmüllerstr. 32, München, Germany. (Publ) Niels Kampmann, Trift 25, Celle, Germany.
- Zsch. f. Parapsychol. Zeitschrift für Parapsychologie (Mo). (Ed) Sünner, P., Grunewaldstr. 40, Berlin-Schöneberg, Germany. (Publ) Oswald Mutze, Lindenstr. 4, Leipzig C 1, Germany.
- Zsch. f. Physik Zeitschrift für Physik (Mo). (Ed) Scheel, K., Werderstr. 28, Berlin-Dahlem, Germany. (Publ) J. Springer, Berlin W 9, Germany.
- Zsch. f. Psychol. Zeitschrift für Psychologie (I Abt. of Zeitschrift für Psychologie und Physiologie der Sinnesorgane) (Irreg.). (Ed) Schumann, F., Mendelssohnstr. 79, Frankfurt a.M., Germany. (Publ) J. A. Barth, Leipzig, Germany.
- Zsch. f. d. evang. Religionsunterricht a. höheren Lehranstalten Zeitschrift für den evangelischen Religionsunterricht an höheren Lehranstalten (8 issues annually). (Ed) Schuster, D., Kantplatz 2, Hannover-Kleefeld, Germany. (Publ) Moritz Diesterweg, Kl. Hirschgraben 12-14, Frankfurt (Main), Germany.
- Zsch. f. d. ges. Neur. u. Psychiat. Zeitschrift für die gesamte Neurologie und Psychiatrie (Irreg.). (Ed) Foerster, O., Tiergartenstr. 83, Breslau, Germany (& others). (Publ) J. Springer, Berlin W 9, Germany.
- Zsch. f. päd. Psychol. Zeitschrift für pädagogische Psychologie und experimentelle Pädagogik (Bimo). (Ed) Scheibner, O., Ehrensteinst. 34, Leipzig N 22, Germany. (Publ) Quelle & Meyer, Kreuzstr. 14, Leipzig C 1, Germany.
- Zsch. f. Religionspsychol. Zeitschrift für Religionspsychologie (Q). (Ed) Beth, K. (Publ) C. Bertelsmann, Gütersloh, Germany.
- Zsch. f. Seelenleben, neuere Psychol. u. verw. Gebiete Zeitschrift für Seelenleben, neuere Psychologie und verwandte Gebiete (Mo). (Ed) Fischer, H. B. (Publ) Oswald Mutze, Lindenstr. 4, Leipzig C 1, Germany.
- Zsch. f. Sex.-wiss. u. Sex.-pol. Zeitschrift für Sexualwissenschaft und Sexualpolitik (Mo). (Ed) Marcuse, M., Lützowstr. 85, Berlin, Germany. (Publ) A. Marcus & E. Webers, Verlag, Berlin, Germany.
- Zsch. f. Schweiz. Statistik u. Volkswirtschaft. Zeitschrift für schweizerische Statistik und Volkswirtschaft (Irreg.). (Ed) Zahn, F. (Publ) Stämpfli & Cie., Hallerstr. 7/9, Bern, Switzerland.
- Zsch. f. system. Theol. Zeitschrift für systematische Theologie (Q). (Ed) Stange, D., Hansenstr. 10, Göttingen, Germany. (Publ) C. Bertelsmann, Gütersloh, Germany.
- Zsch. f. Theol. u. Kirche Zeitschrift für Theologie und Kirche (Bimo). (Ed) Stephan, H. (Publ) J. C. B. Mohr, Tübingen, Germany.
- Zsch. f. vergl. Physiol. Zeitschrift für vergleichende Physiologie (Abt. C. Zeitschrift für wissenschaftliche Biologie) (Irreg.). (Ed) Von Frisch, K., Zoolog. Inst., Neuhauserstr. 51, München, Germany. (Publ) J. Springer, Berlin W 9, Germany.
- Zsch. f. Volkerpsychol. u. Soziol. Zeitschrift für Volkerpsychologie und Soziologie (Q). (Ed) Thurnwald, Sternstr. 43, Berlin-Lichterfelde, Germany. (Publ) C. L. Hirschfeld, Hospitalstr. 10, Leipzig C 1, Germany.

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